

JVC

SCHEMATIC DIAGRAMS

PDP COLOR TELEVISION

PD-42V475/s
PD-42V485/s

CD-ROM No. SML200408



BASIC CHASSIS

FP2

*I'Art*TM
PALETTE

D.I.S.T.
Digital Image Scaling Technology

BBE

HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

PD-42V475/s, PD-42V485/s STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the **Δ** symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1) Input signal : Colour bar signal
- (2) Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3) Internal resistance of tester : DC 20kΩ/V
- (4) Oscilloscope sweeping time : H ⇒ 20μs/div
: V ⇒ 5ms/div
: Others ⇒ Sweeping time is specified
- (5) Voltage values : All DC voltage values

*Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209 → R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

● Resistance value

- No unit : [Ω]
- k : [kΩ]
- M : [MΩ]

● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflamable resistor
- FR : Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

● Capacitance value

- 1 or higher : [pF]
- less than 1 : [μF]

● Withstand voltage

- No indication : DC50[V]
- AC indicated : AC withstand voltage [V]
- Others : DC withstand voltage [V]

*Electrolytic Capacitors

47/50[Example] : Capacitance value [μF]/withstand voltage[V]





● Type

- No indication : Ceramic capacitor
- MY : Mylar capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3) Coils



- No unit : [μH]
- Others : As specified

(4) Power Supply



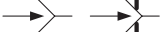
-  : B1
-  : B2(12V)
-  : 9V
-  : 5V

*Respective voltage values are indicated





(5) Test point

-  : Test point
-  : Only test point display



(6) Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7) Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED (NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED (NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND at the same time with a measuring apparatus (oscilloscope, etc.). If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.
When ordering parts, please use the numbers that appear in the Parts List.


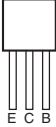
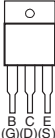

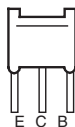
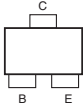
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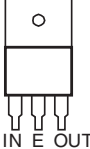
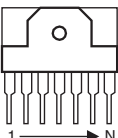
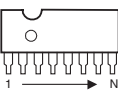
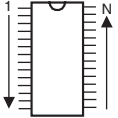
USING P.W. BOARD

PWB ASS'Y NAME	PD-42V475/S	PD-42V485/S
RECEIVER P.W. BOARD	SFP0F502A-M2	←
ANALOG SIGNAL P.W. BOARD	SFP0A503A-M2	←
AV JACK P.W. BOARD	SFP0J502A-M2	←
DIGITAL SIGNAL P.W. BOARD	SFP0D503A-M2	SFP0D504A-M2
INTERFACE P.W. BOARD	SFP-7505A-M2	SFP-7506A-M2
AUDIO P.W. BOARD	SFP-6004A-M2	←
FRONT CONTROL P.W. BORAD	SFP-8502A-M2	←
FRONT LED P.W. BOARD	SFP-8504A-M2	←
TEMP. SENSOR P.W. BOARD	SFP0T201A-M2	←
REGULATOR P.W. BOARD	SFP-9203A-M2	←
LINE FILTER P.W. BOARD	SFP-9510A-M2	←
MAIN POWER P.W. BOARD	SFP-9504A-M2	←
SUB POWER P.W. BOARD	SFP-9506A-M2	←

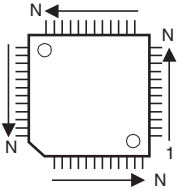
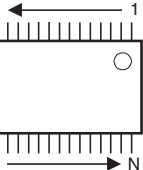
SEMICONDUCTOR SHAPES

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

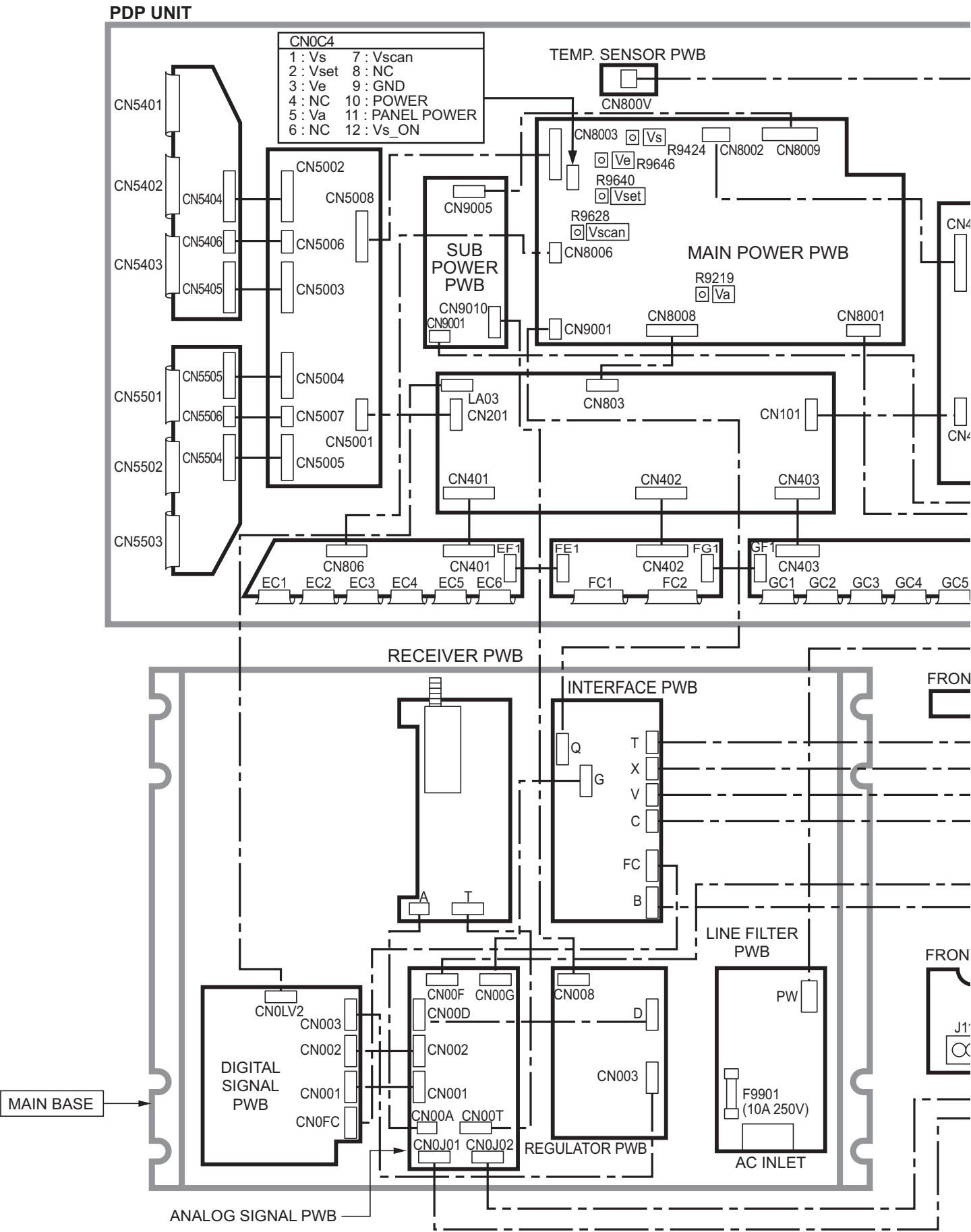
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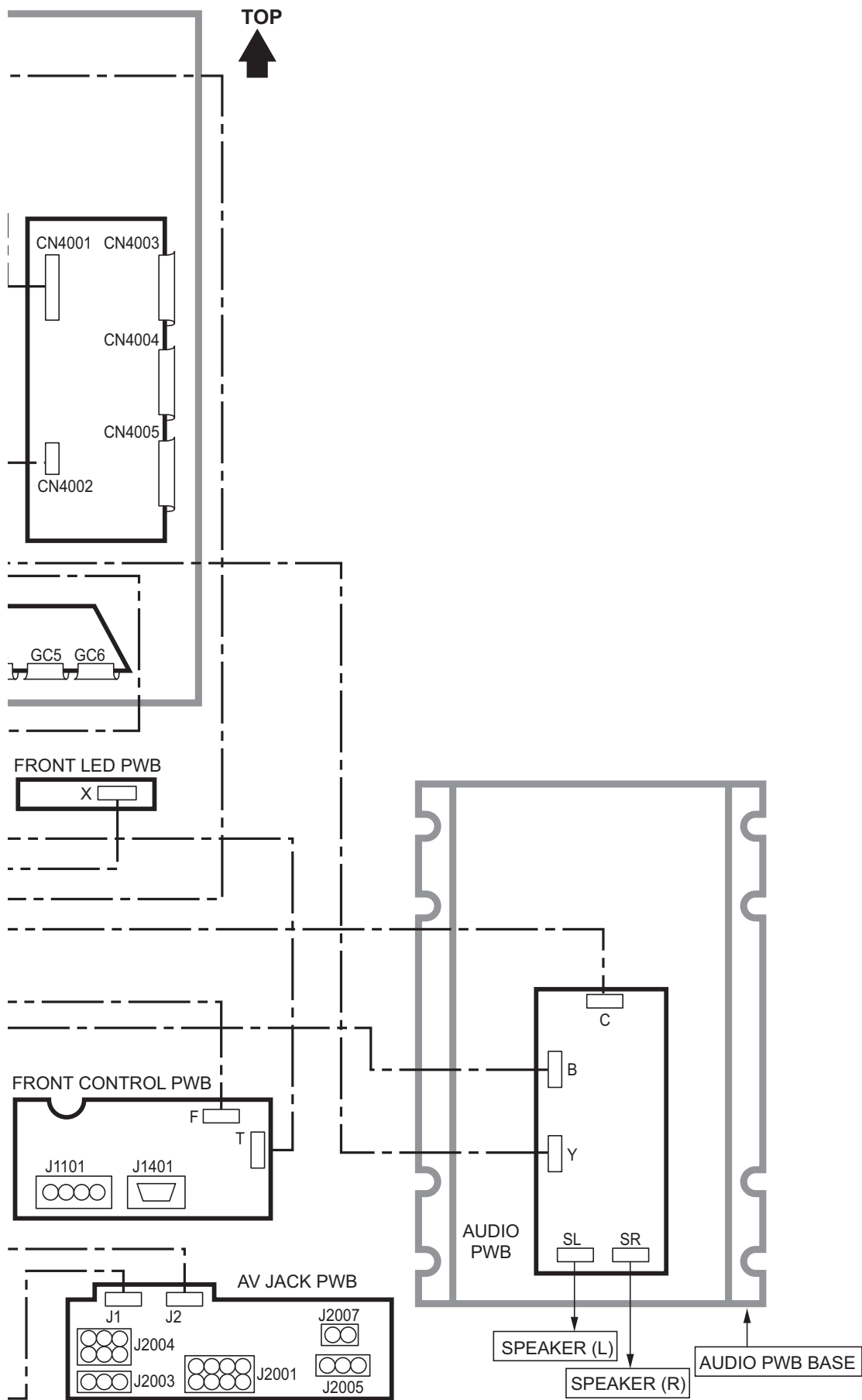
BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

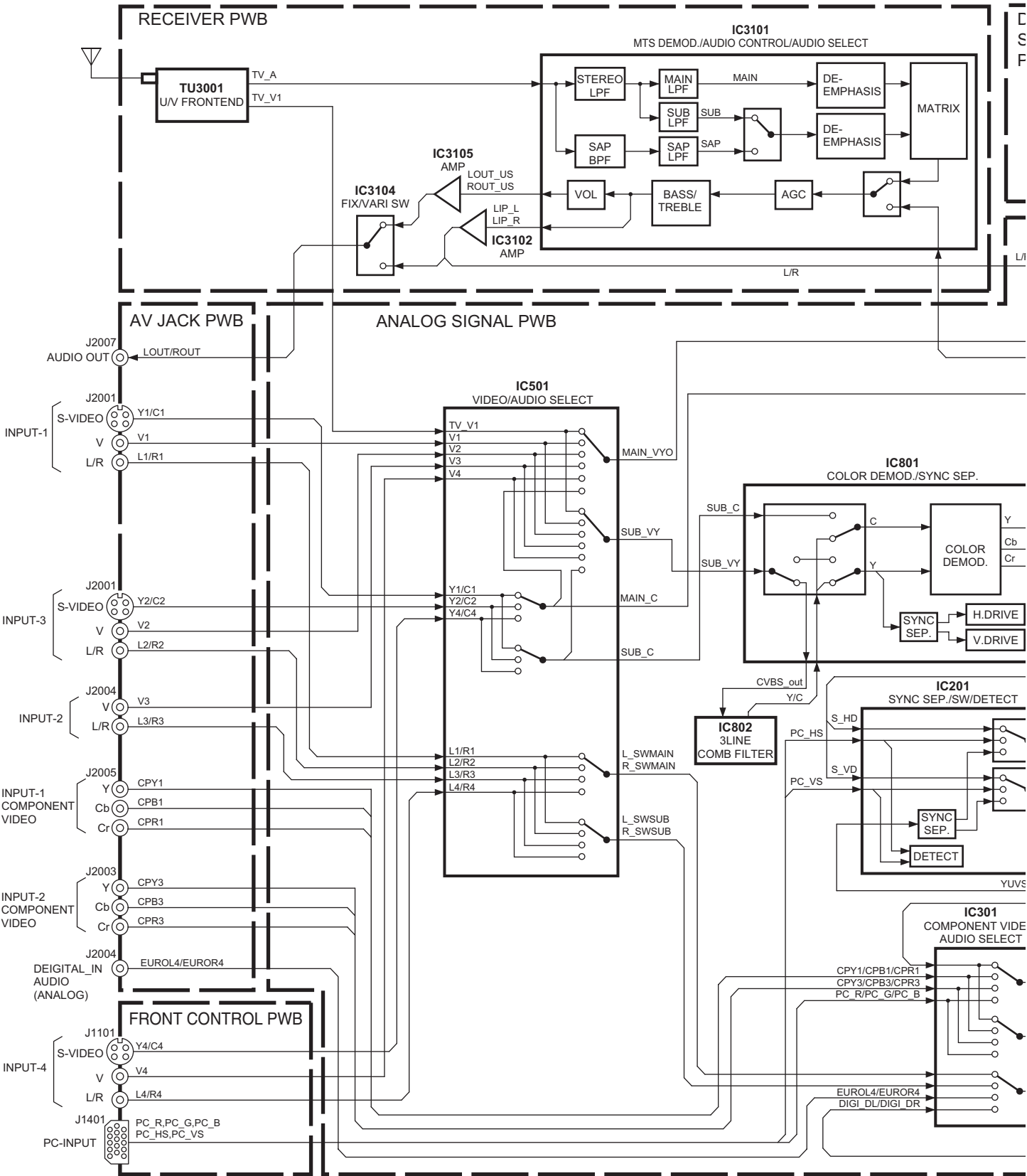
TOP VIEW		
		

WIRING & MAIN PARTS LOCATION

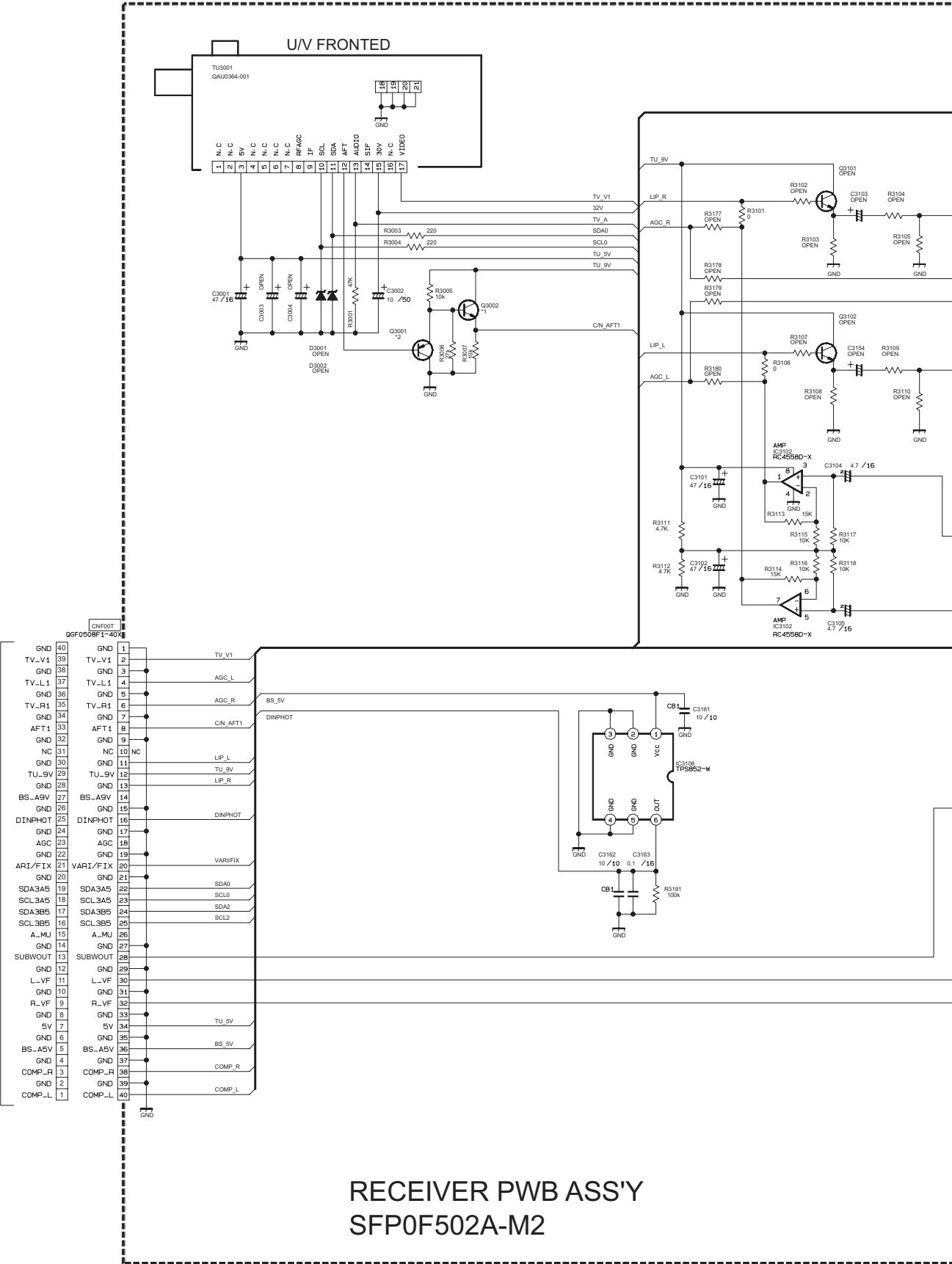




BLOCK DIAGRAM

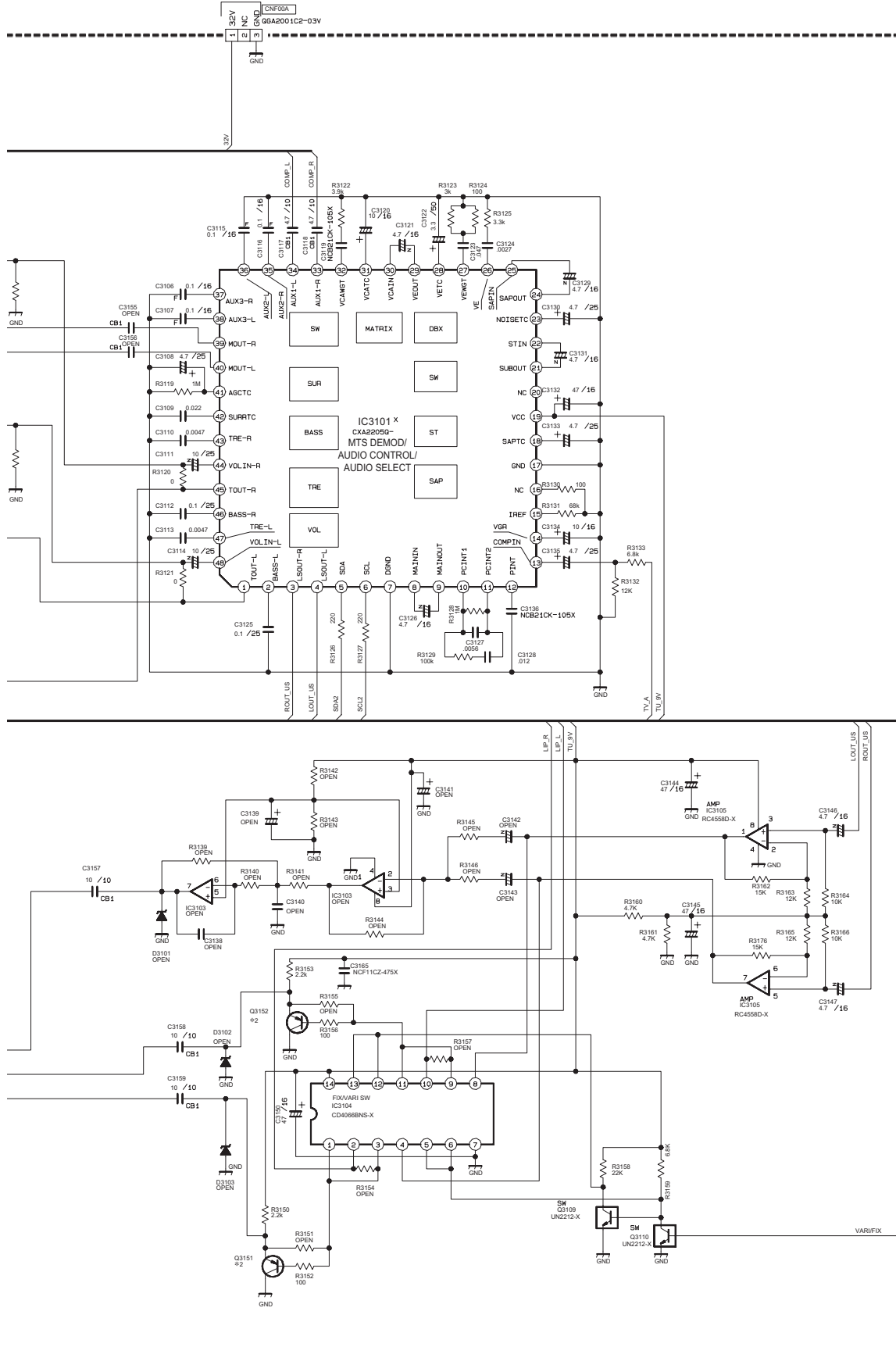


CIRCUIT DIAGRAMS
RECEIVER PWB CIRCUIT DIAGRAM SHEET1



NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-92 for waveforms of this circuit diagram.

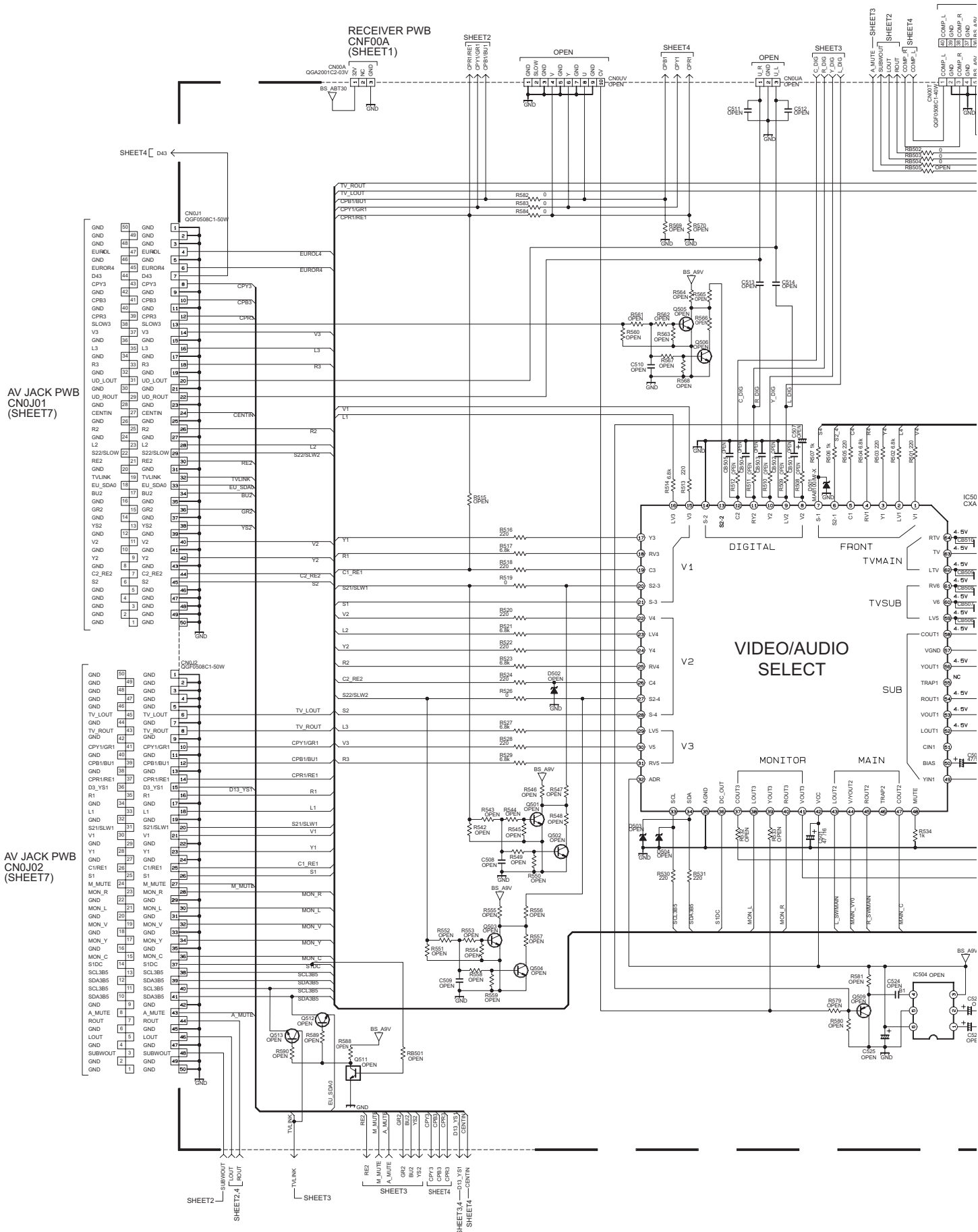
ANALOG SIGNAL PWB (1/5)
CN00A (SHEET2)



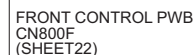
NOTE

- 0 : NRSA63J-0R0X
- *1 : 2SC3928A/QR/-X
- *2 : 2SA1530A/QR/-X

ANALOG SIGNAL PWB CIRCUIT DIAGRAM (1/5) SHEET2



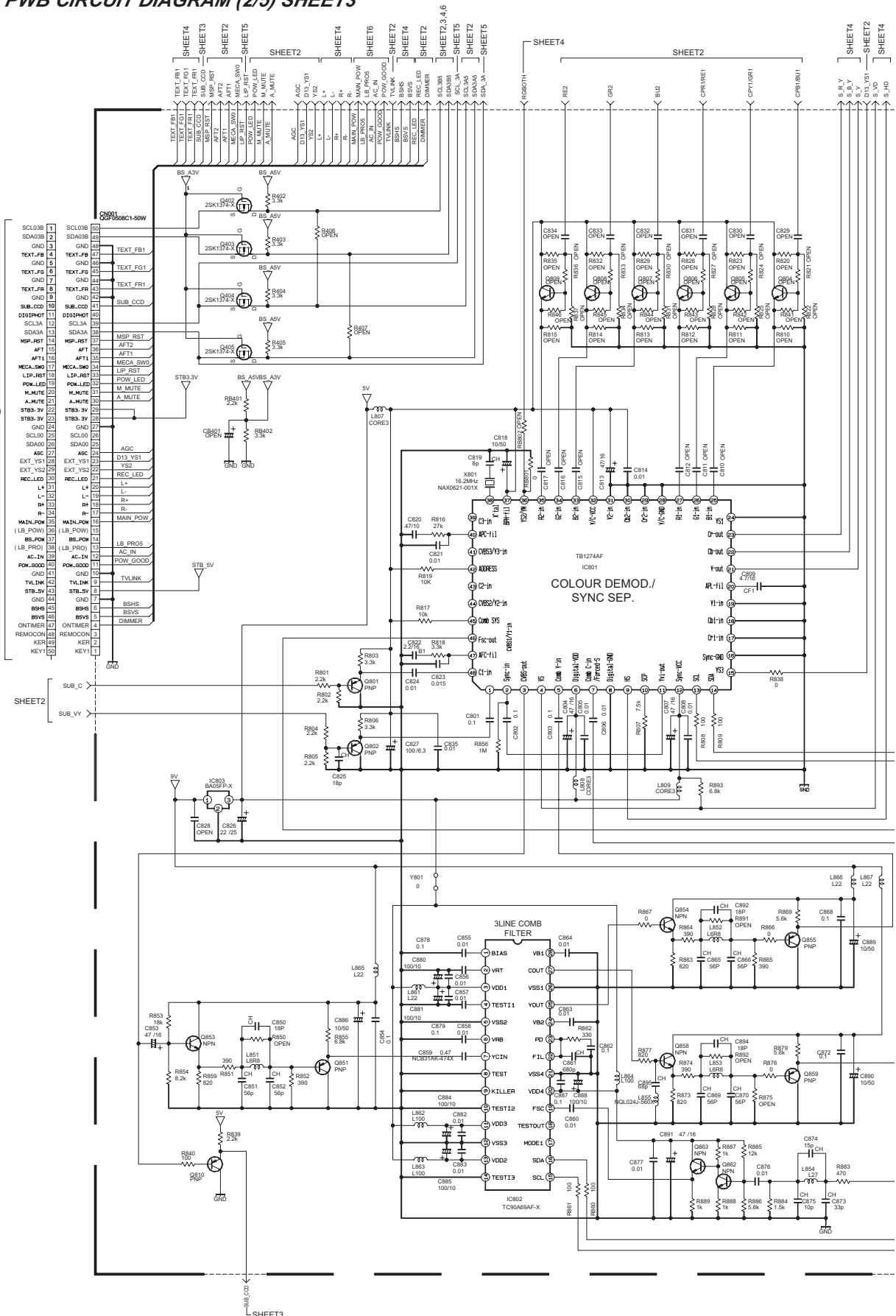
- NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-92 for waveforms of this circuit diagram.



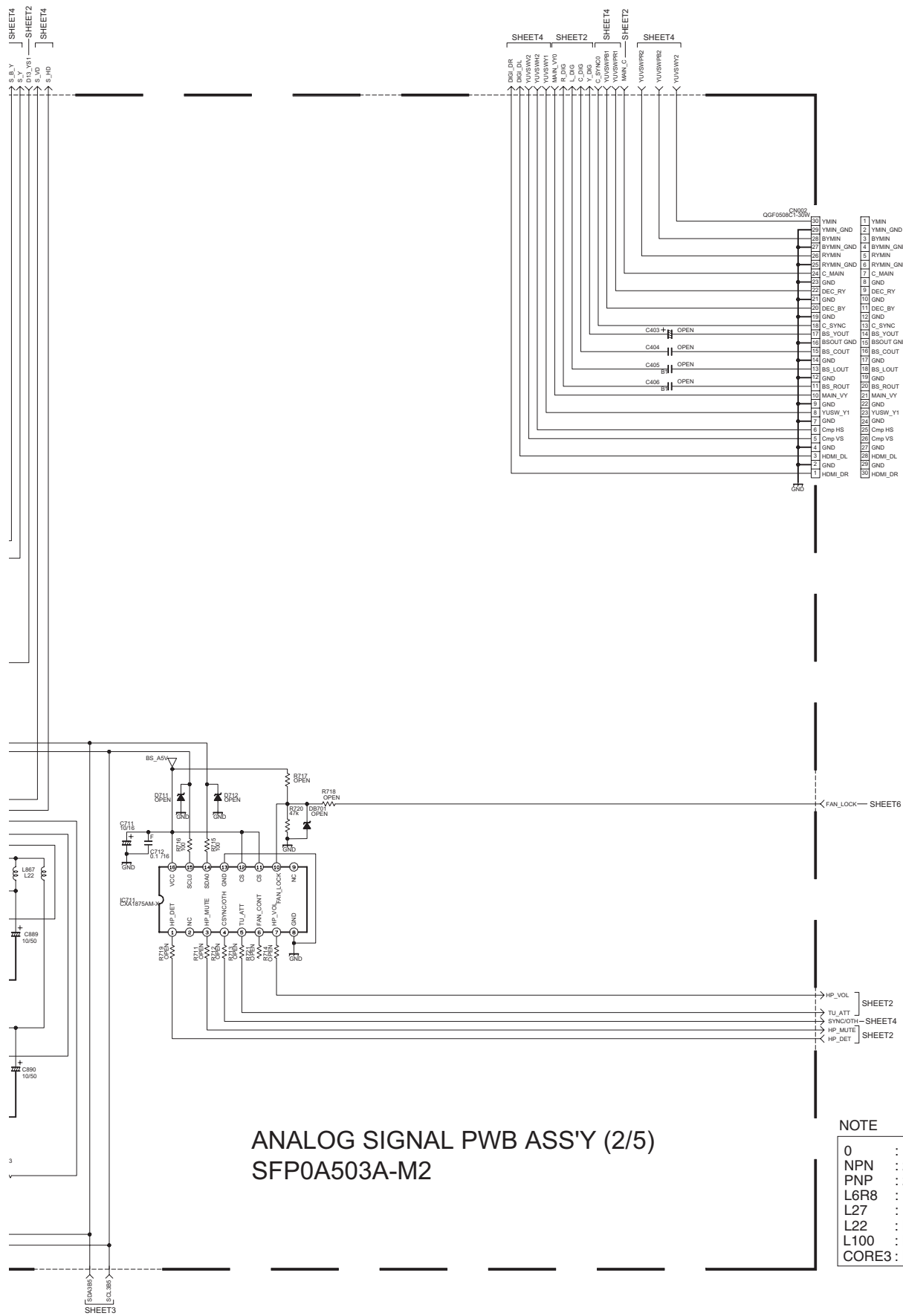
0	: NRSA63-0R0X
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ANALOG SIGNAL PWB CIRCUIT DIAGRAM (2/5) SHEET3

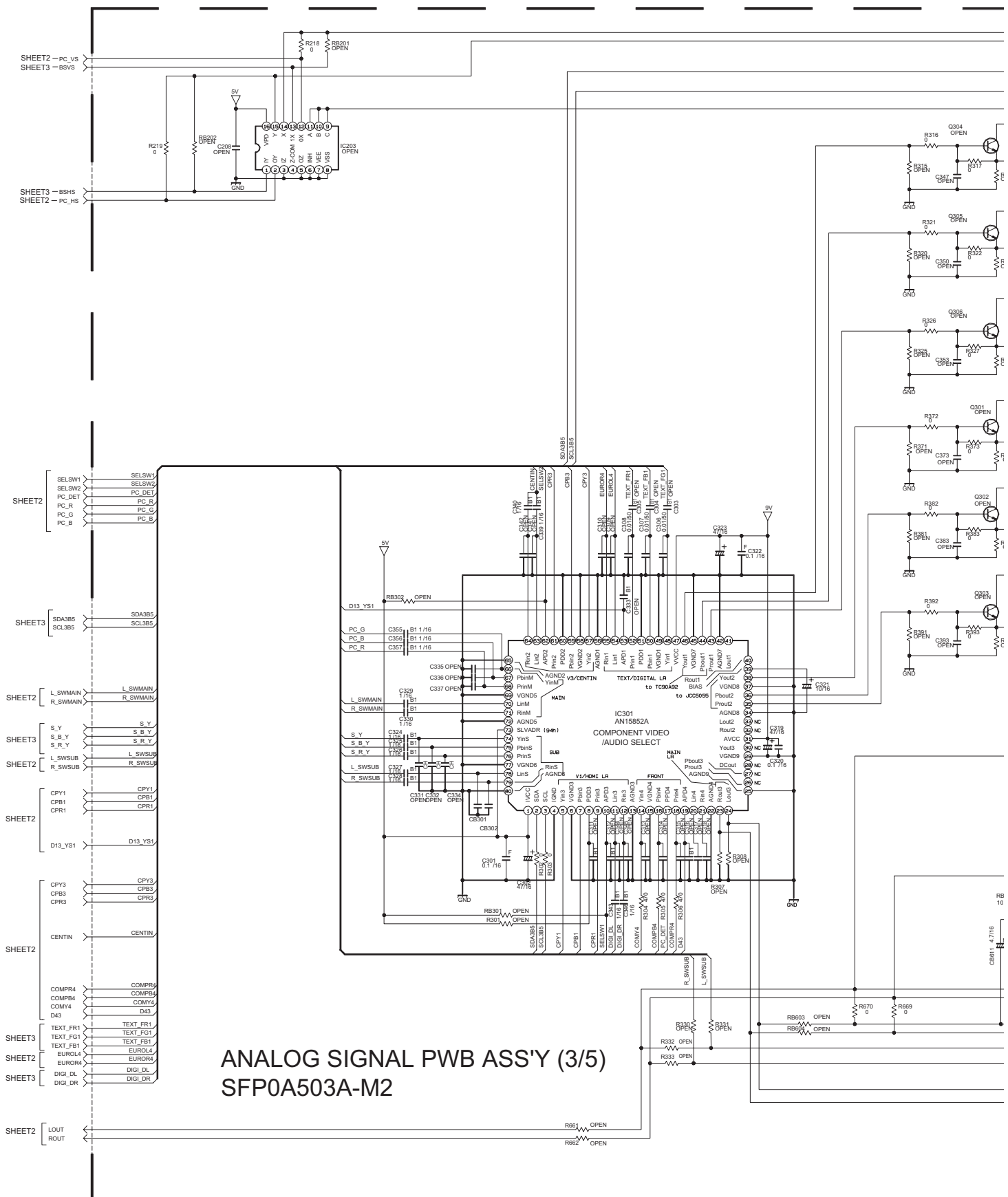
DIGITAL SIGNAL PWB (10/11)
CN001 (SHEET17)



NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-92 for waveforms of this circuit diagram.



DIGITAL SIGNAL PWB (11/11)
 CN002 (SHEET18)



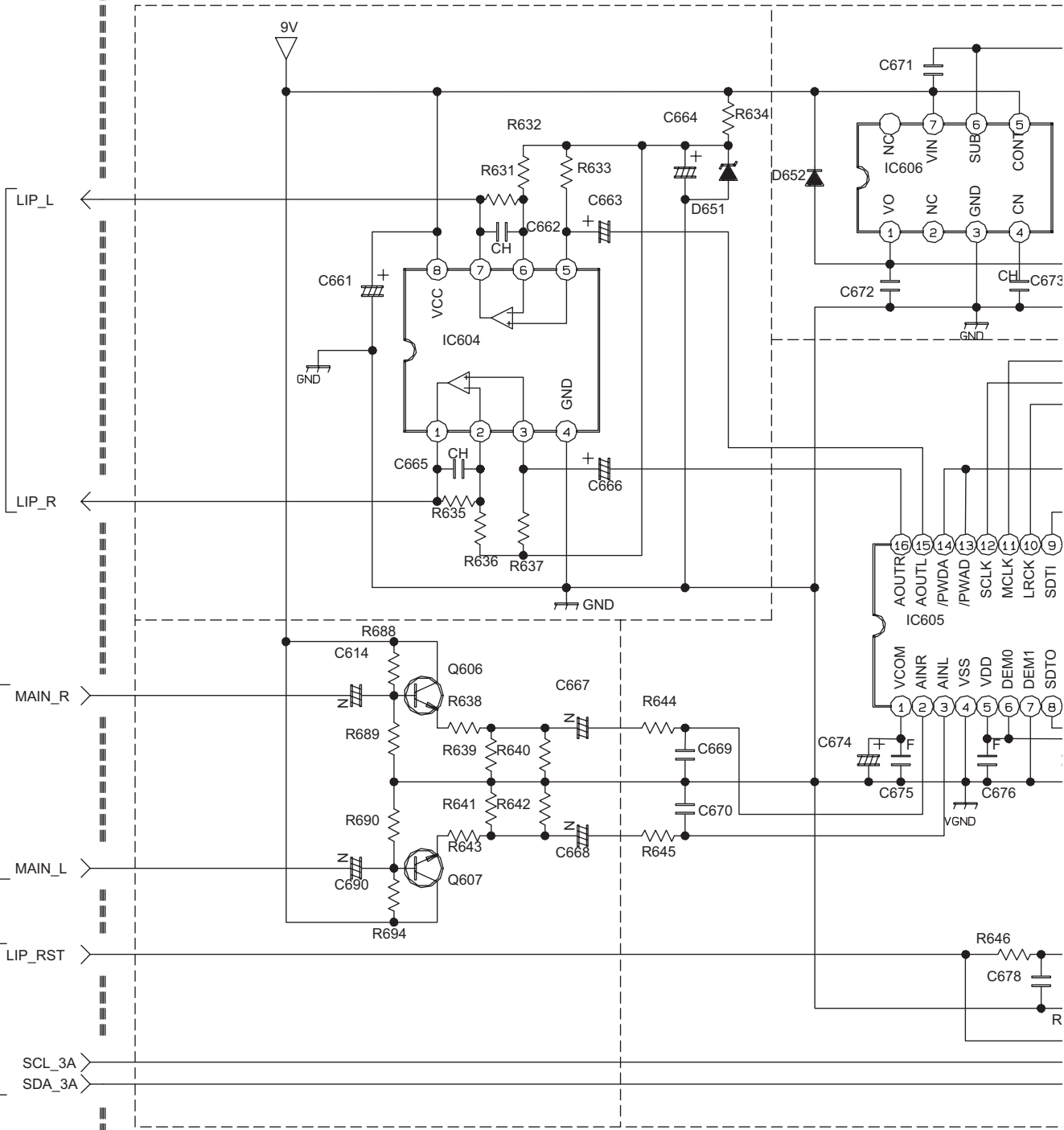
NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-92 for waveforms of this circuit diagram.

ANALOG SIGNAL PWB ASS'Y (4/5)
SFP0A503A-M2

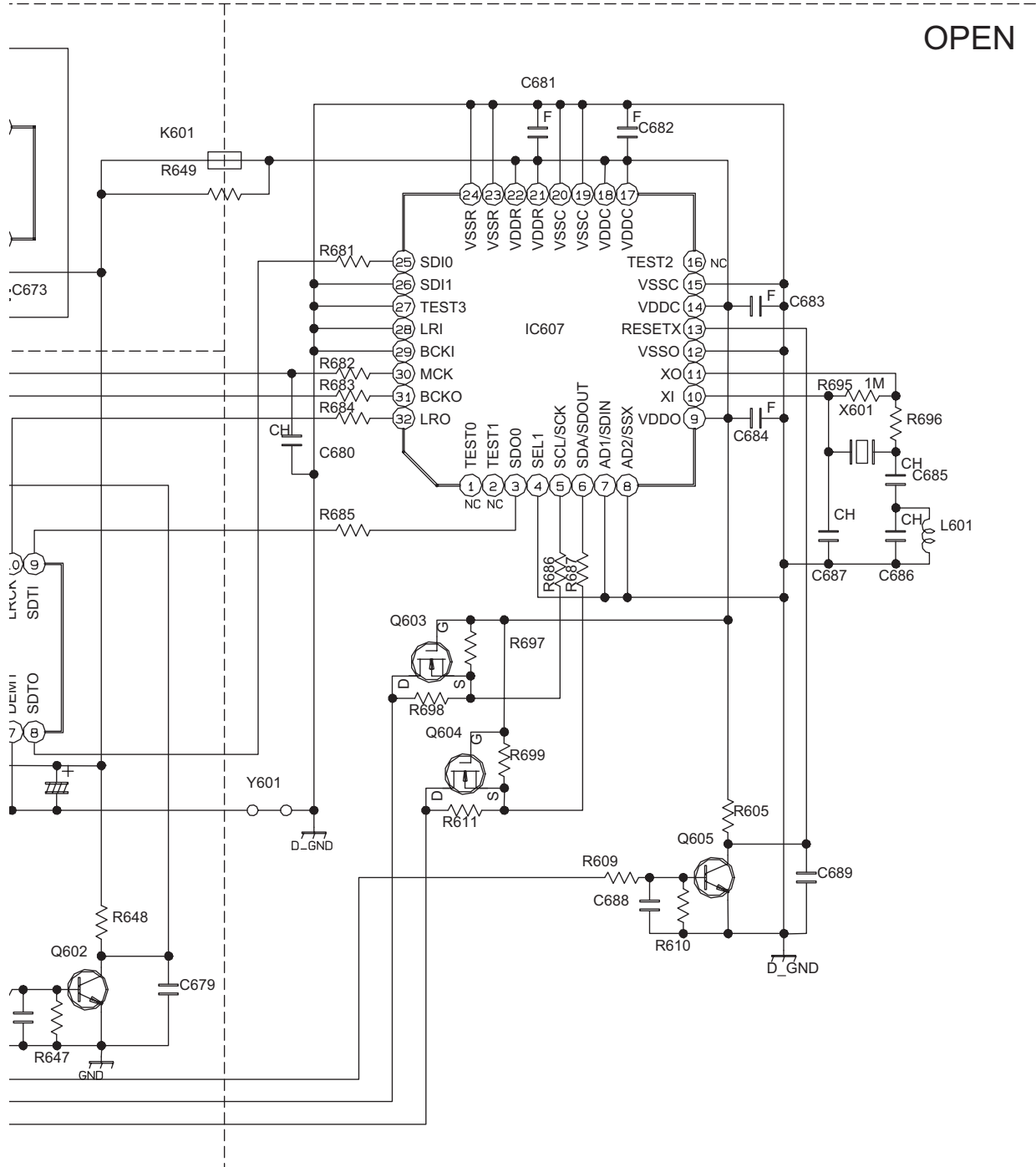
SHEET2,4

SHEET2,4

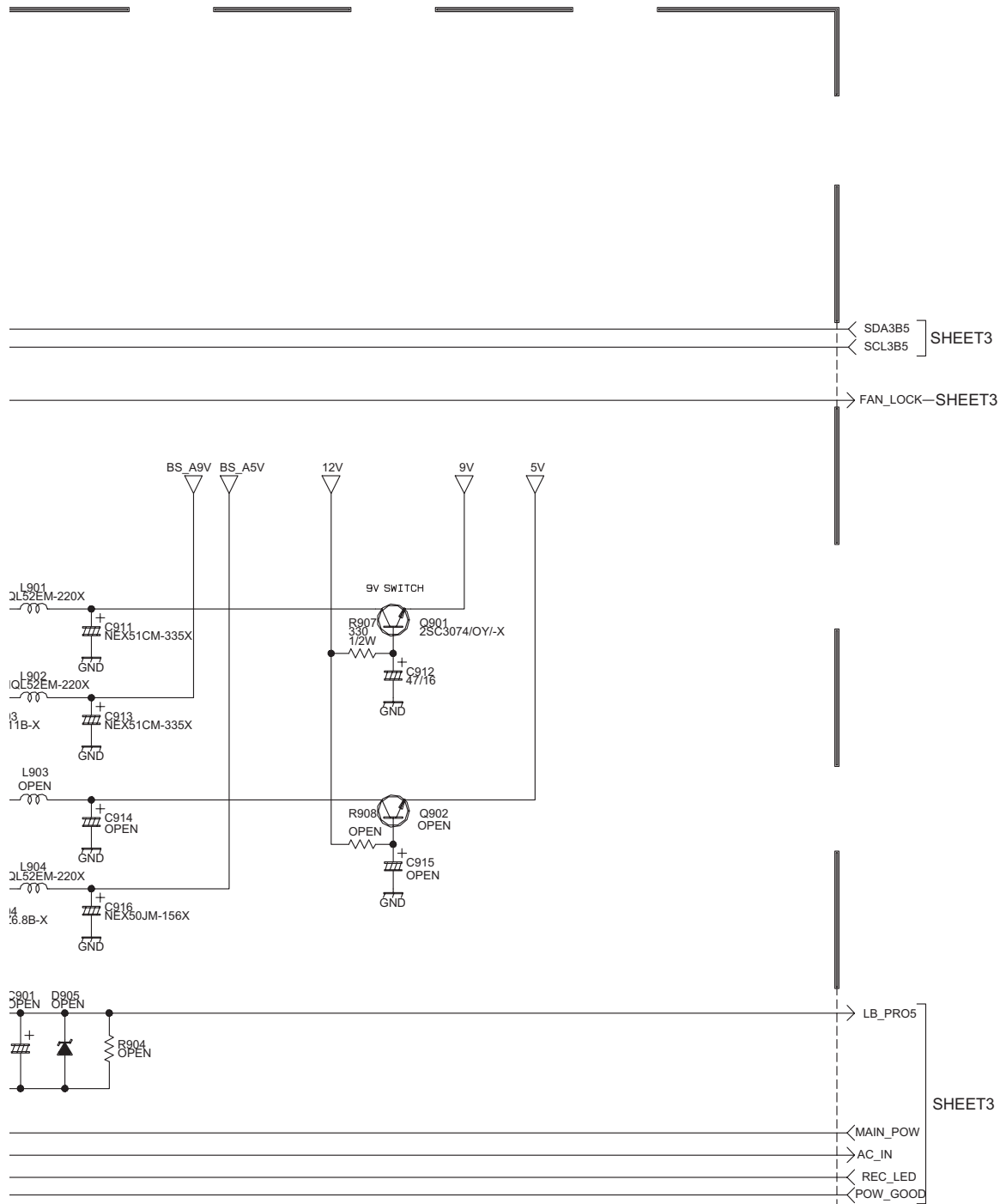
SHEET3

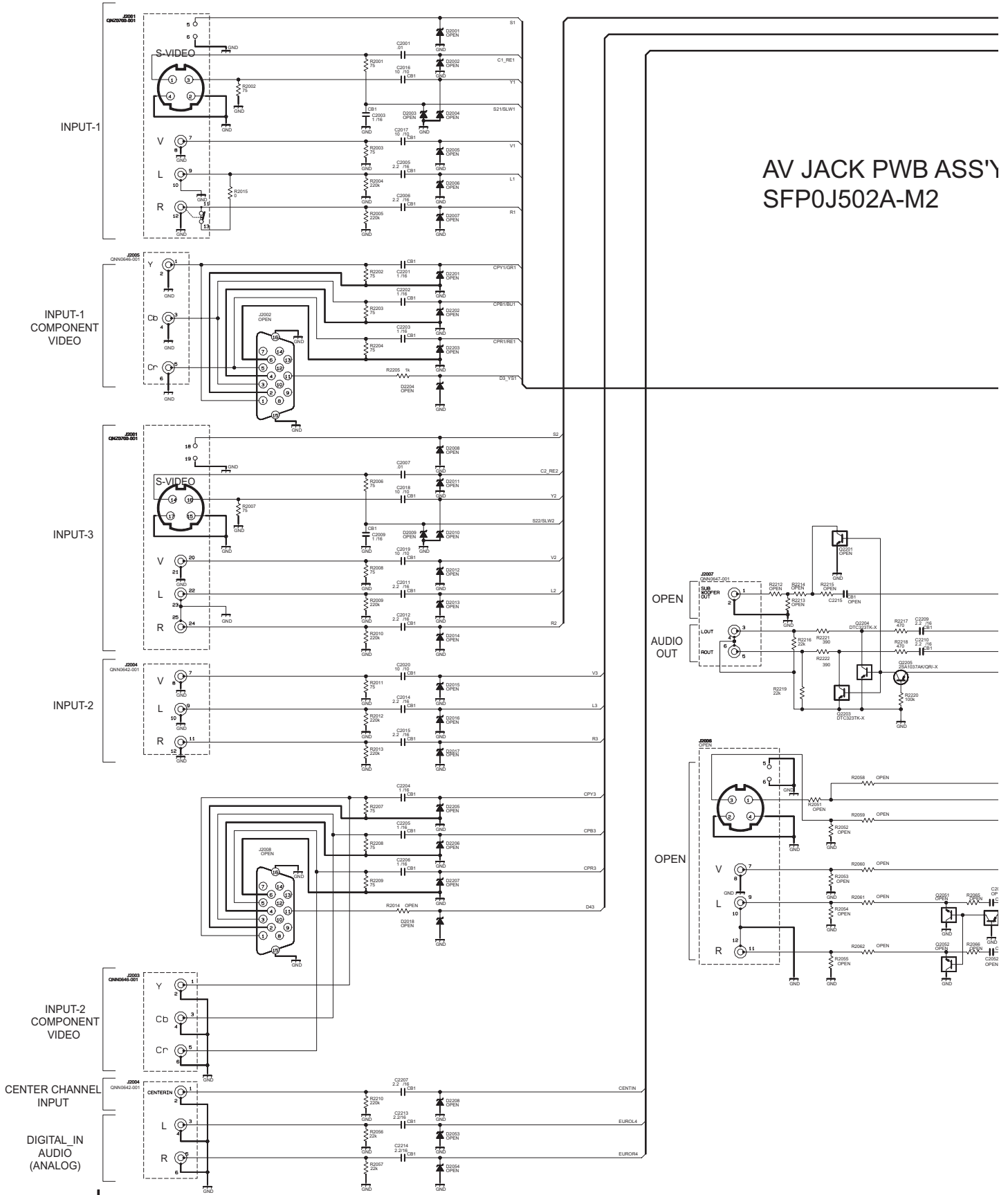


All parts in this circuit diagram are not used.



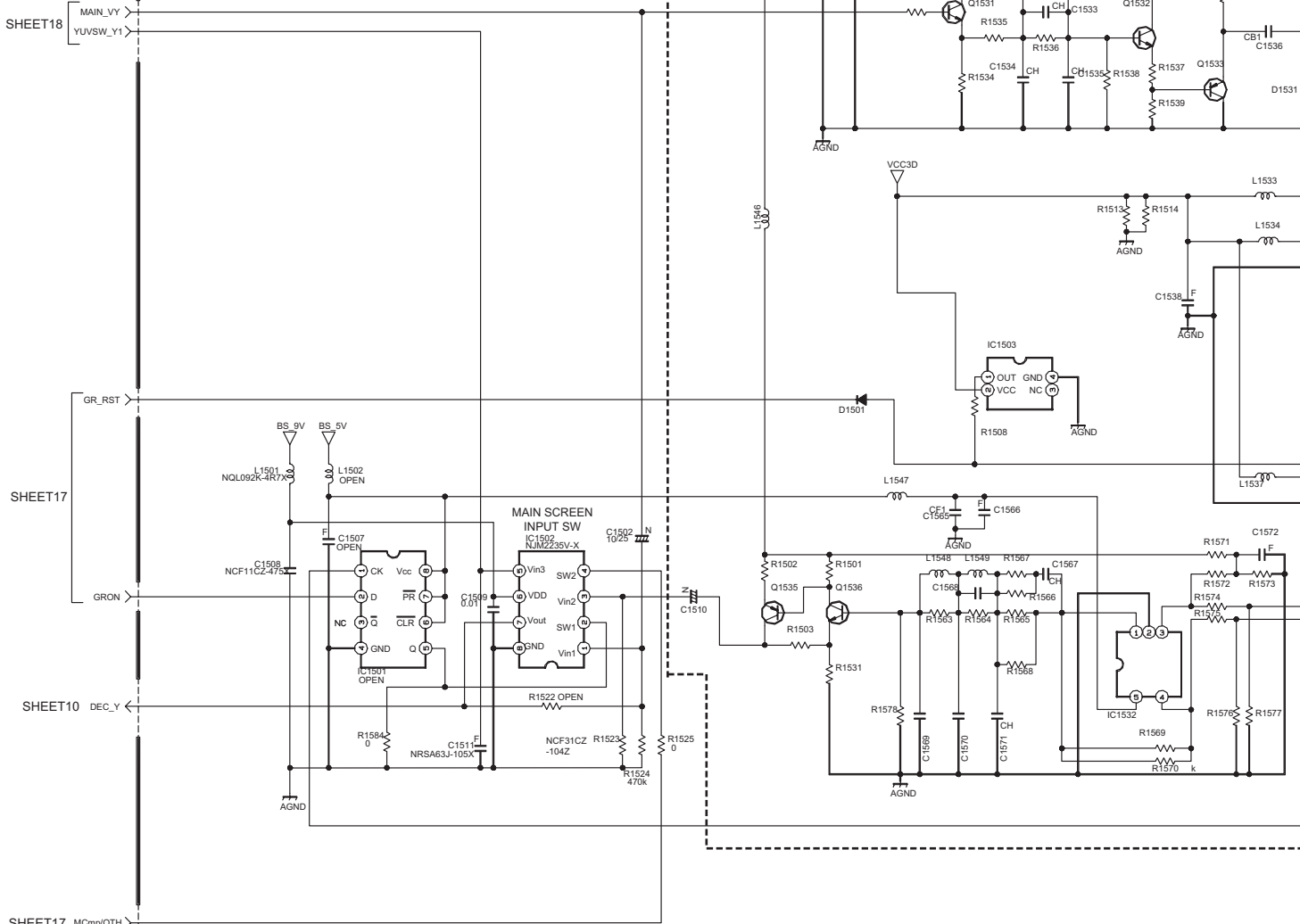
No. YA099





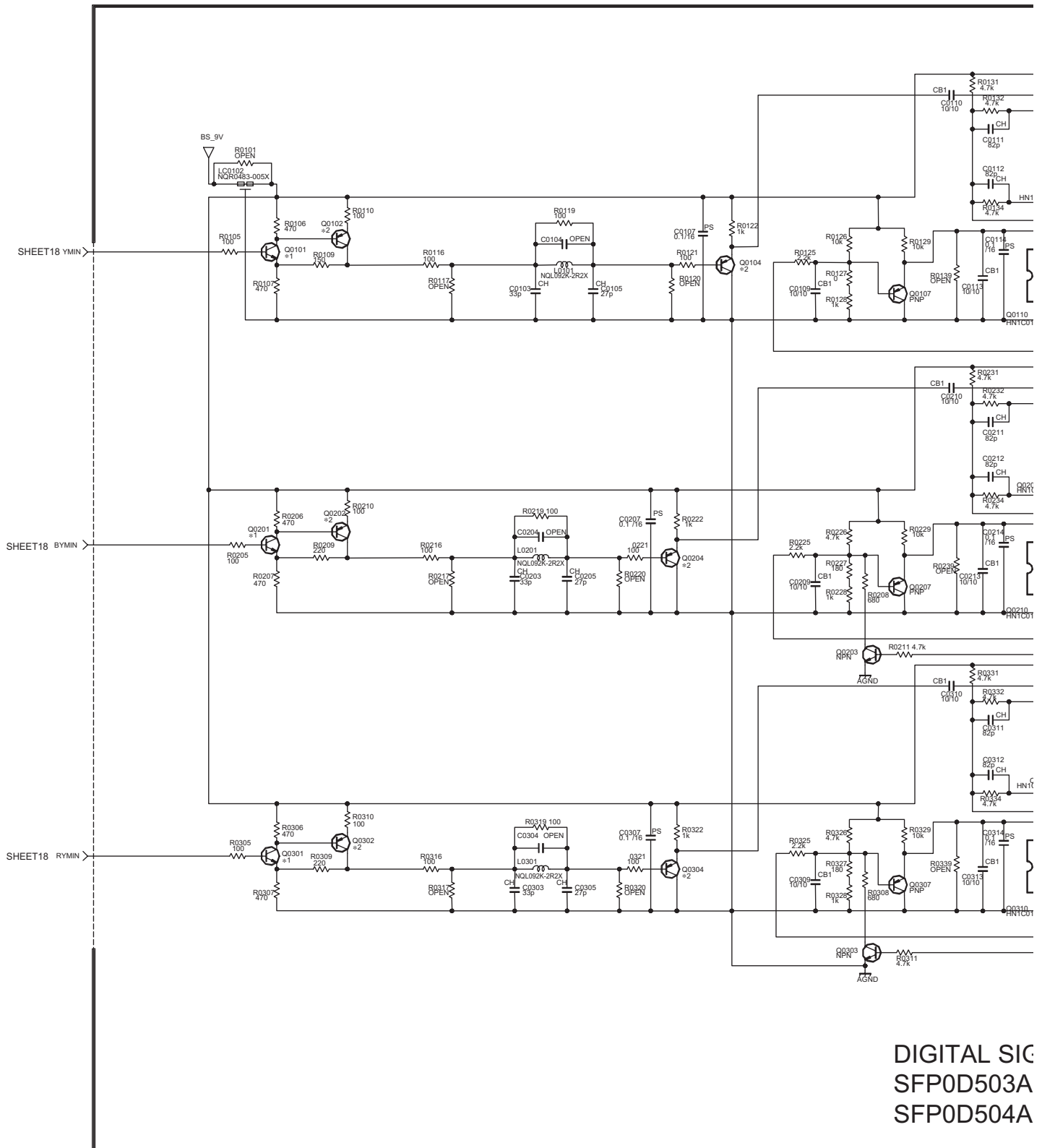


0 : NRSA63J-0R0X

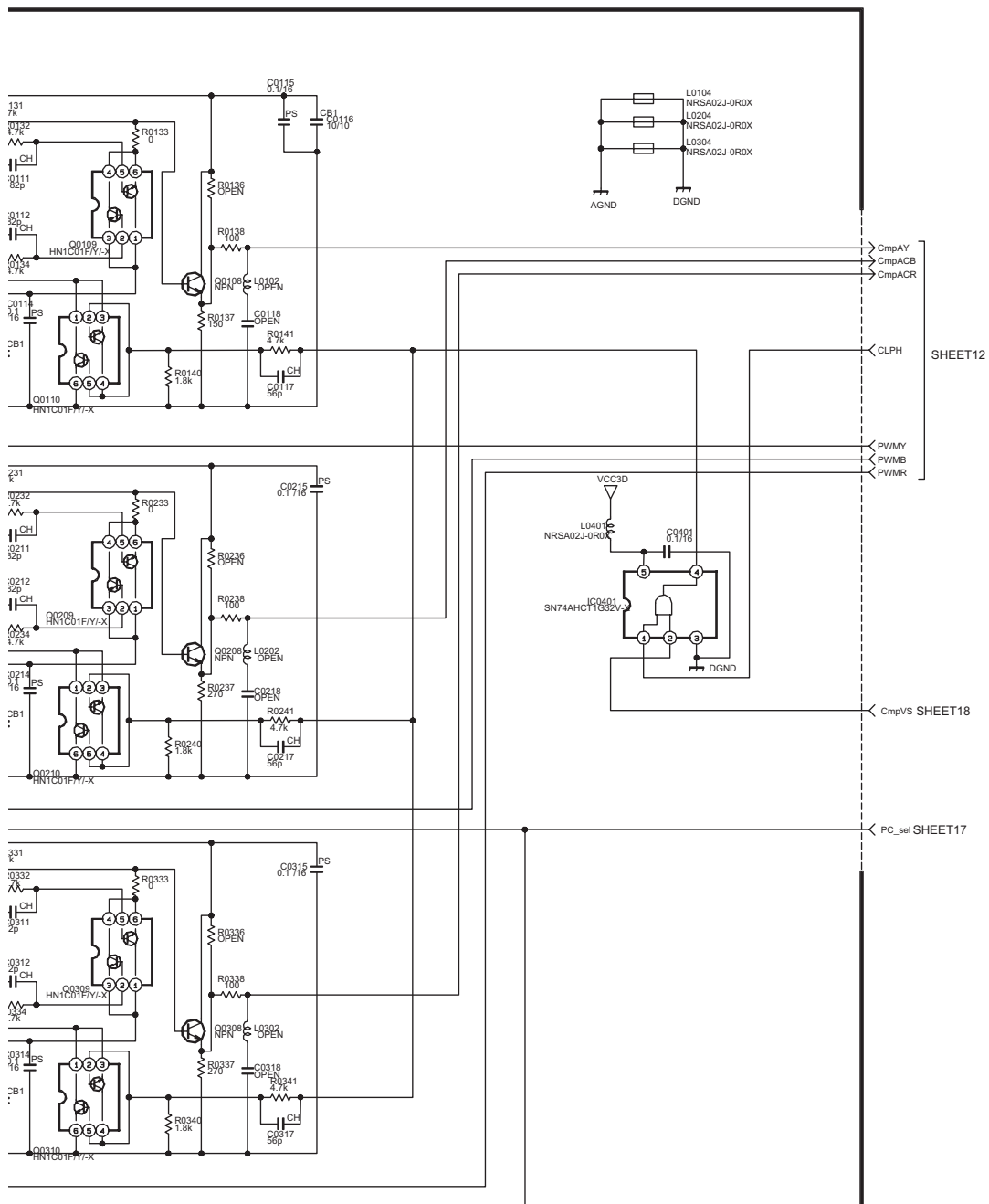


DIGITAL SIGNAL PWB ASS'Y (1/11)
SFP0D503A-M2 [PD-42V475/S]
SFP0D504A-M2 [PD-42V485/S]

NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-92 for waveforms of this circuit diagram.



NOTE) Please refer to page 2-89 for voltages of this circuit diagram.

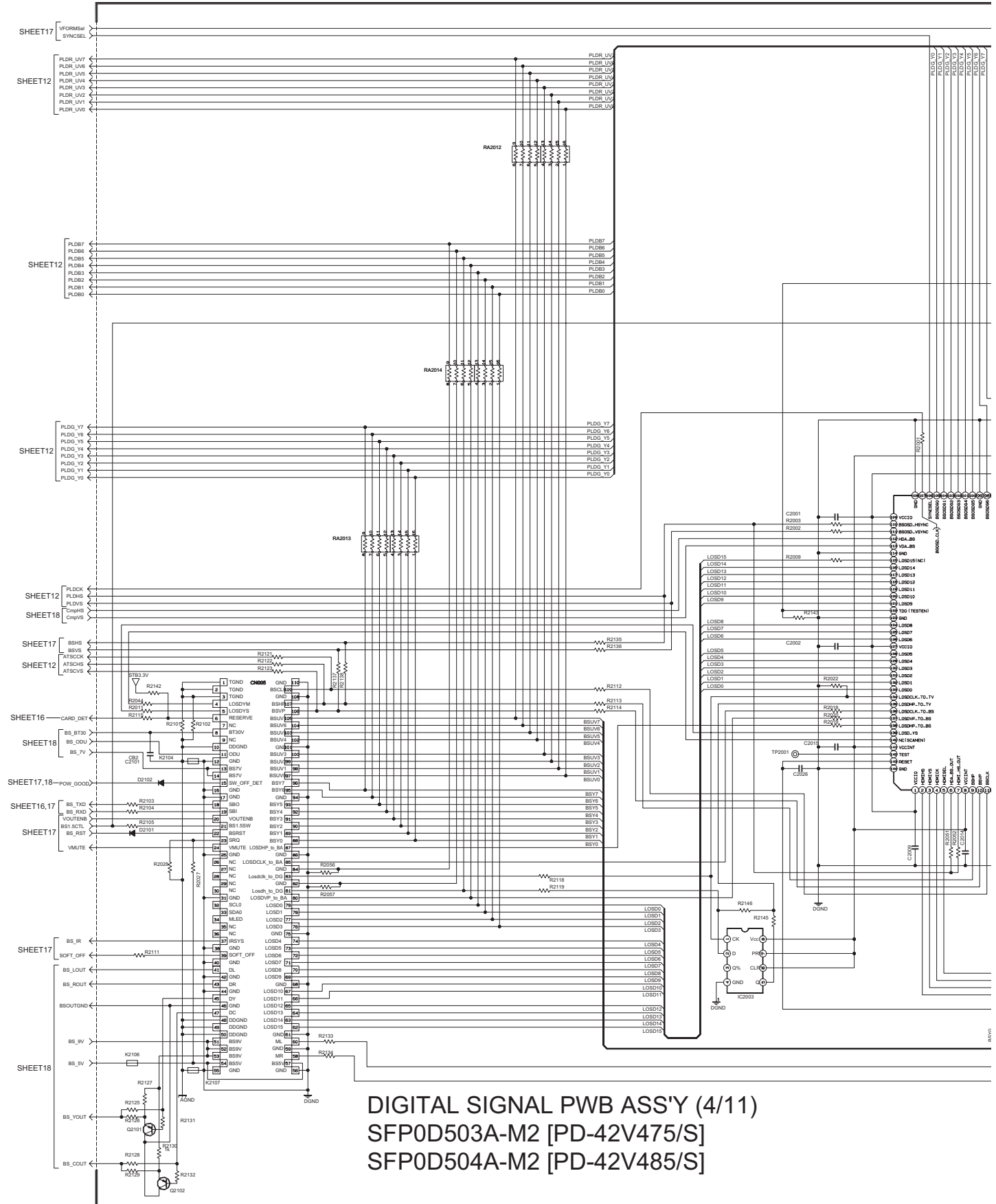


. SIGNAL PWB ASS'Y (2/11)
 03A-M2 [PD-42V475/S]
 04A-M2 [PD-42V485/S]

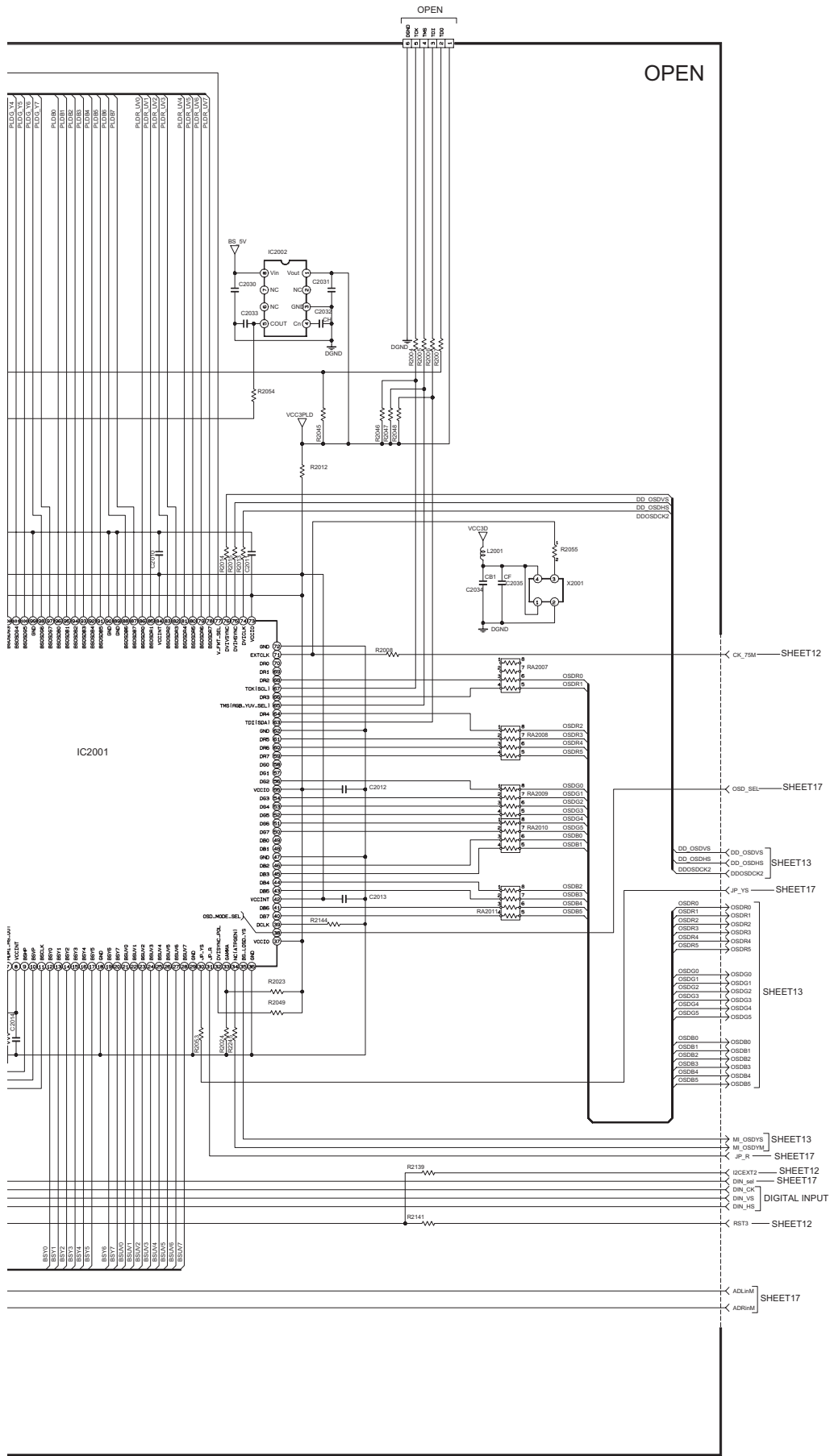
NOTE

0 : NRSA63J-0R0X
 NPN : 2SC3928A/QR/-X
 PNP : 2SA1530A/QR/-X
 *1 : 2SC3837K/NP/-X
 *2 : 2SA1022/BC/-X

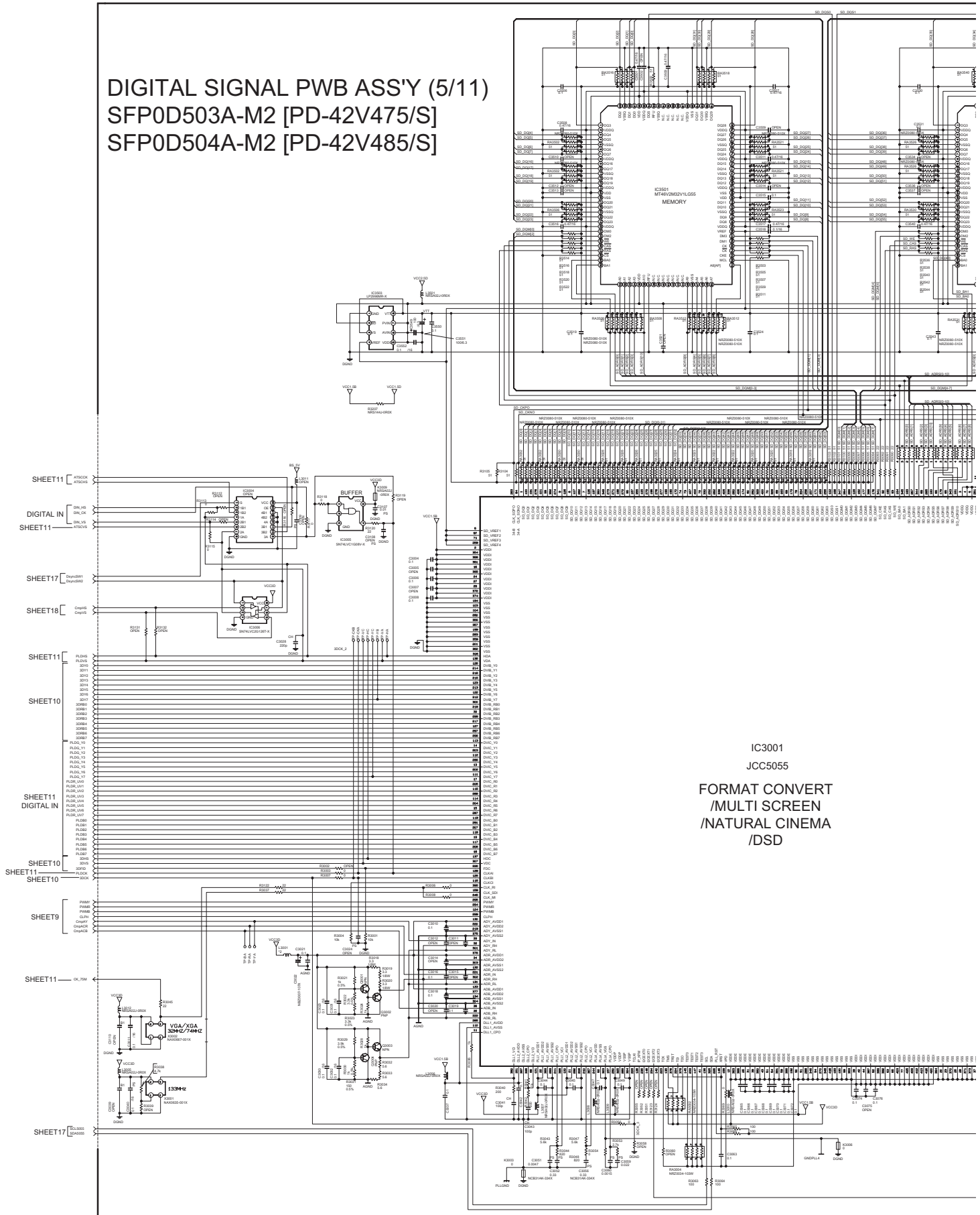
NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-92 for waveforms of this circuit diagram.



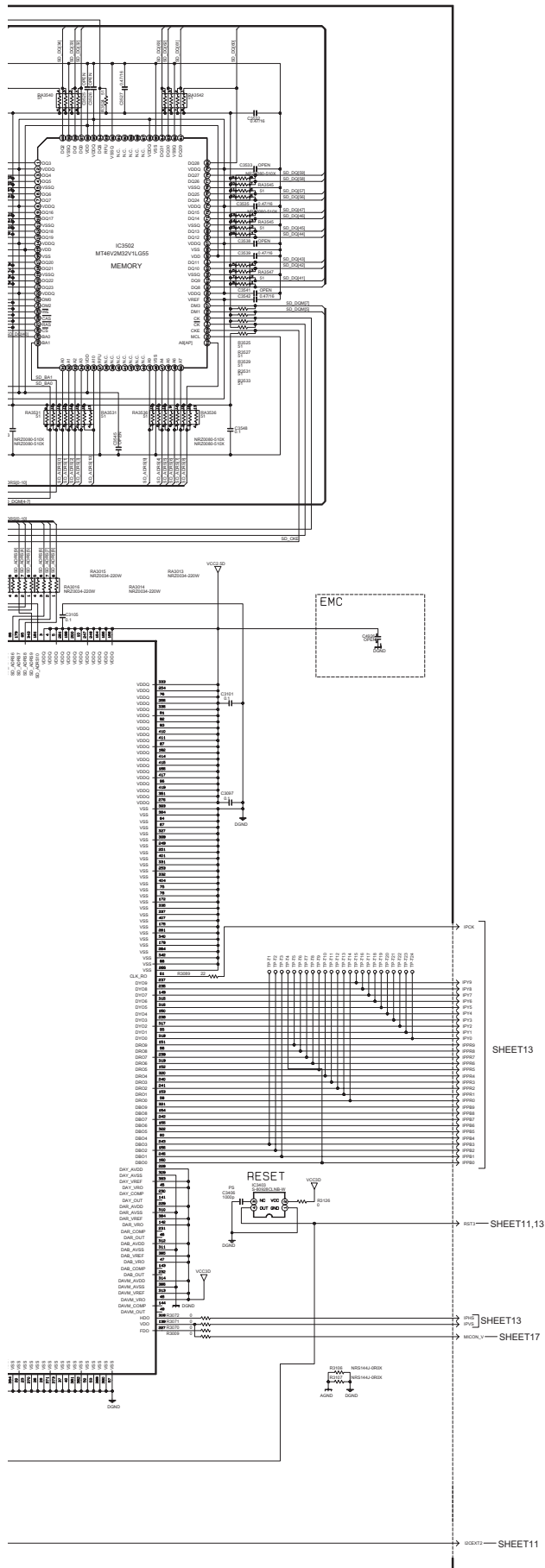
All parts in this circuit diagram are not used.



DIGITAL SIGNAL PWB ASS'Y (5/11)
SFP0D503A-M2 [PD-42V475/S]
SFP0D504A-M2 [PD-42V485/S]

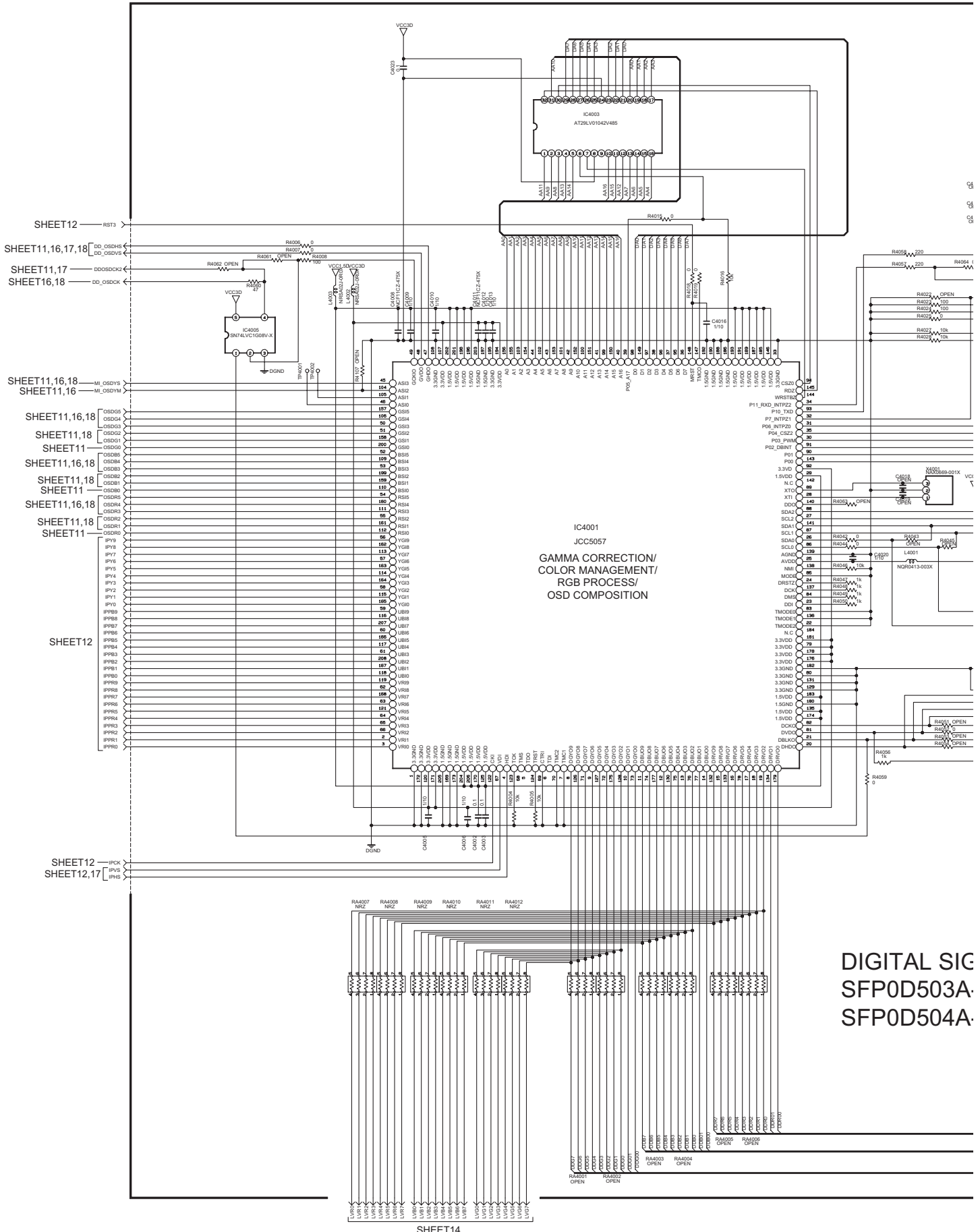


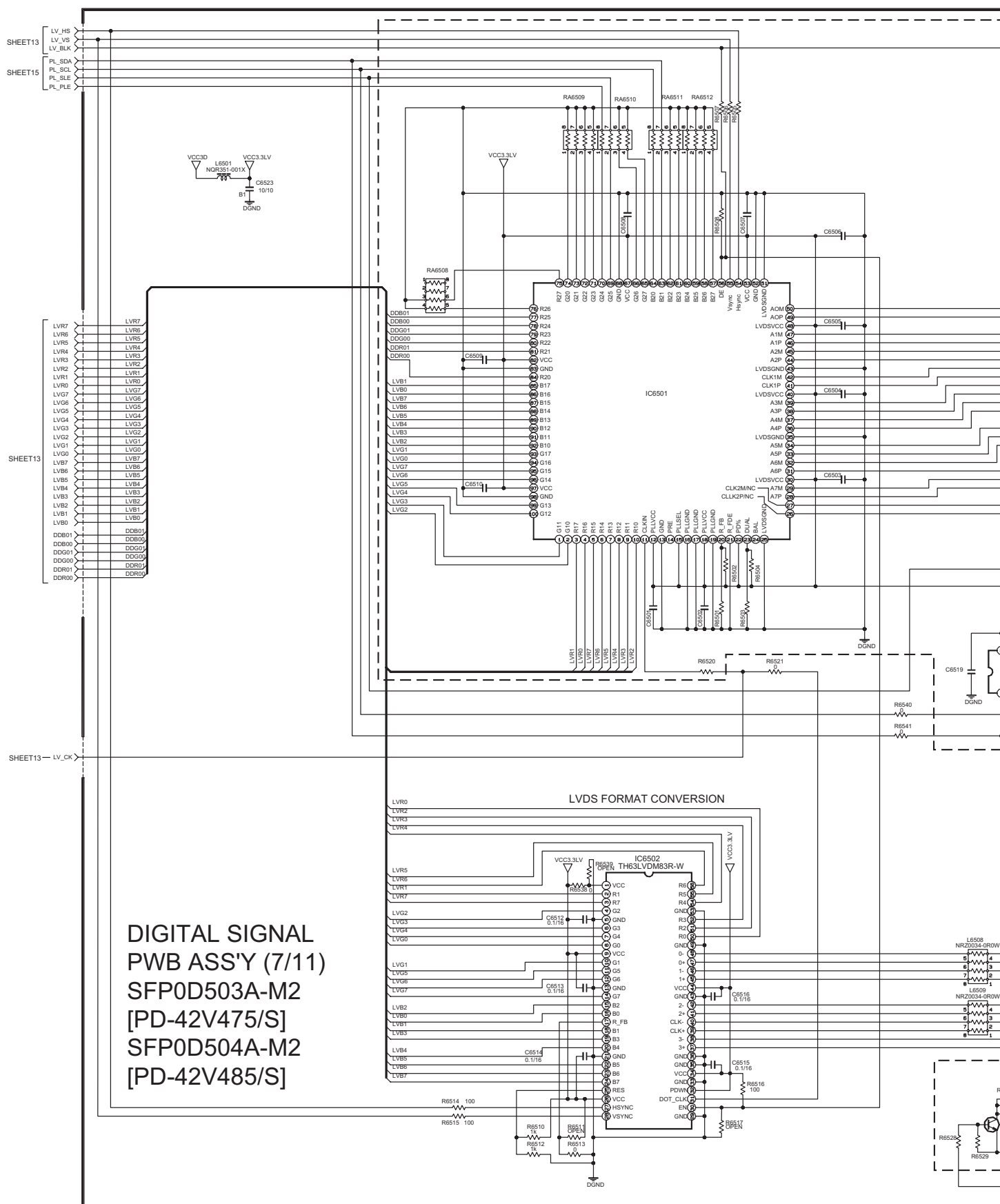
NOTE) Please refer to page 2-90 for voltages of this circuit diagram.



NOTE

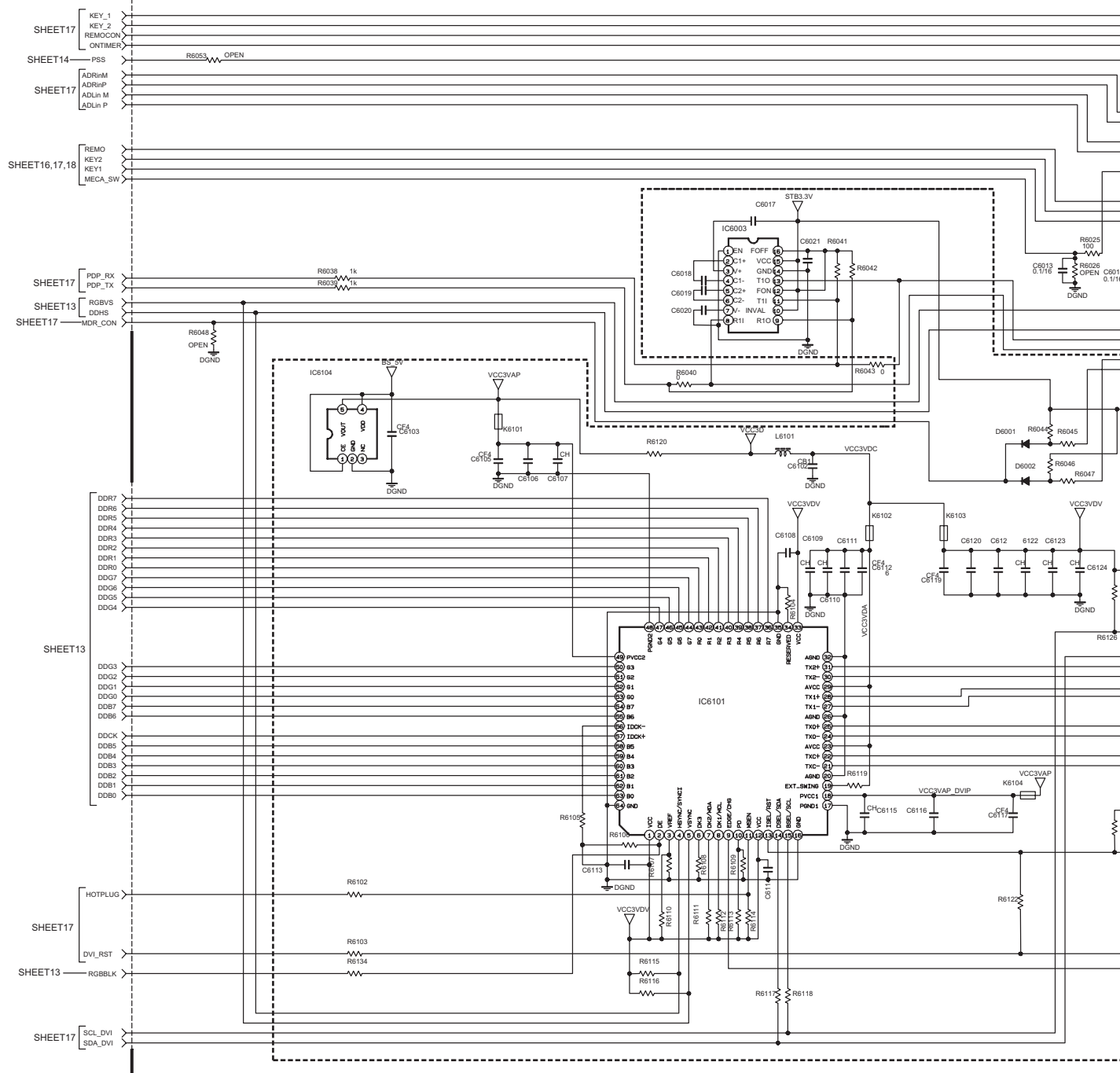
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PNP	: 2SA1530A/QR/-X
*2	: NQR0489-002X
0.1	: NCF31CZ-104X

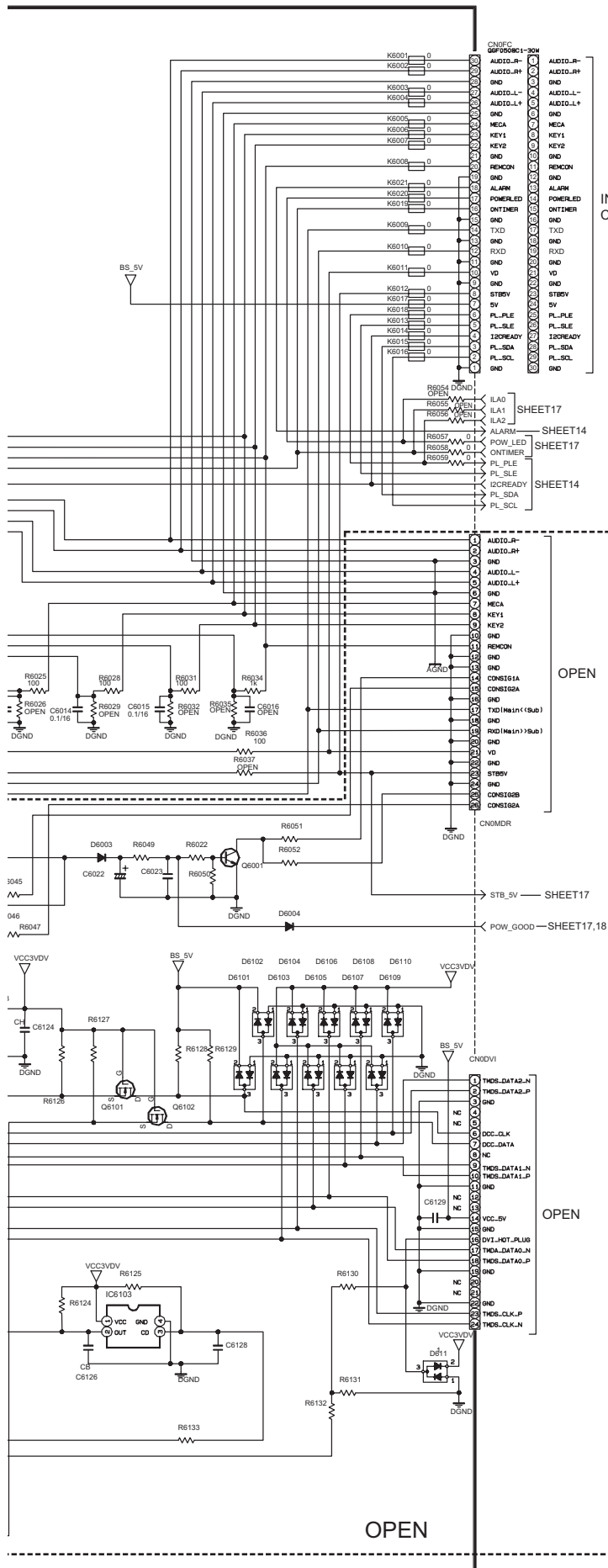




- NOTES) 1. Please refer to page 2-90 for voltages of this circuit diagram.
2. Please refer to page 2-92 for waveforms of this circuit diagram.

DIGITAL SIGNAL PWB ASS'Y (8/11)
SFP0D503A-M2 [PD-42V475/S]
SFP0D504A-M2 [PD-42V485/S]





INTERFACE PWB (1/2)
CN0FC (SHEET19)

OPEN

OPEN

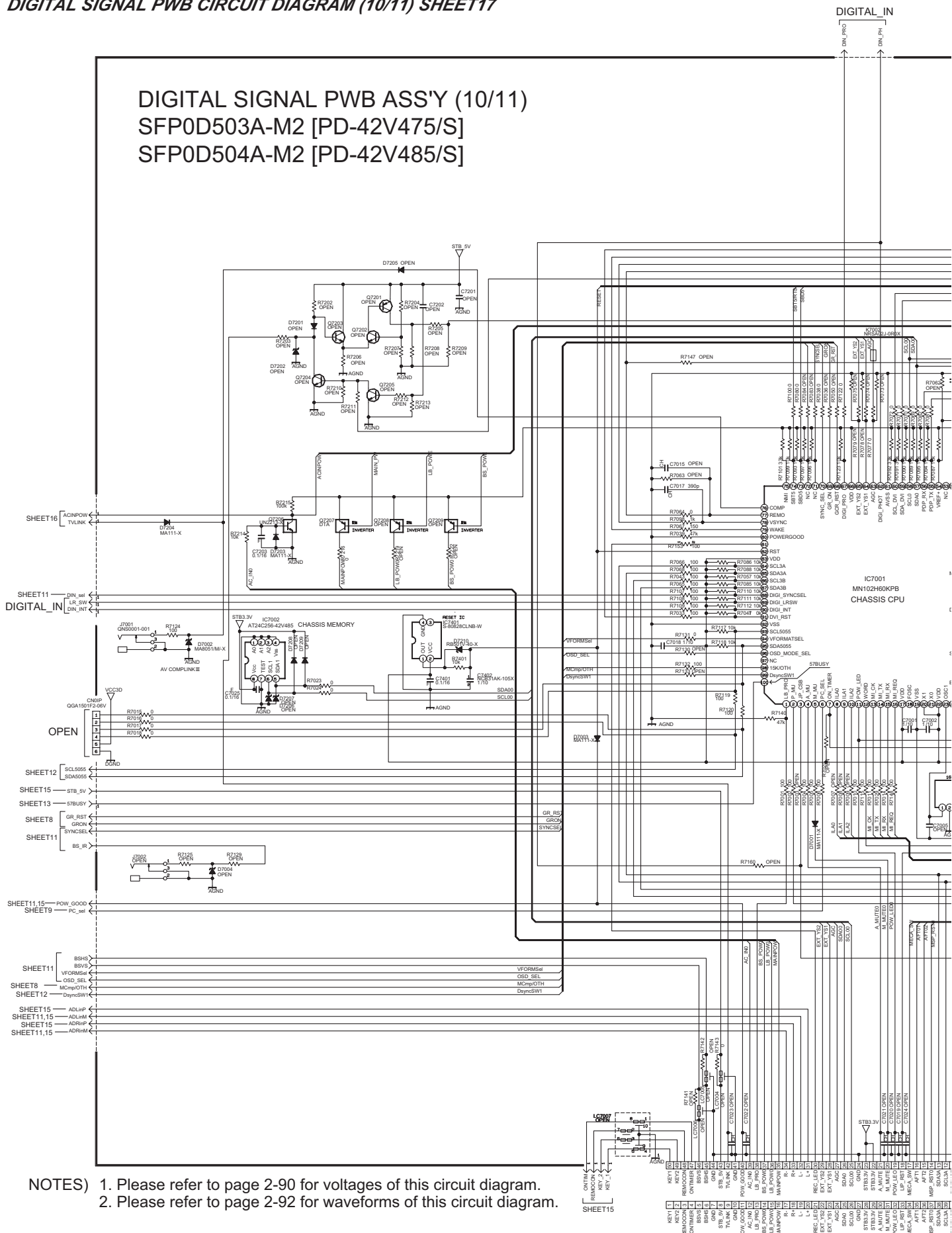
OPEN

NOTE

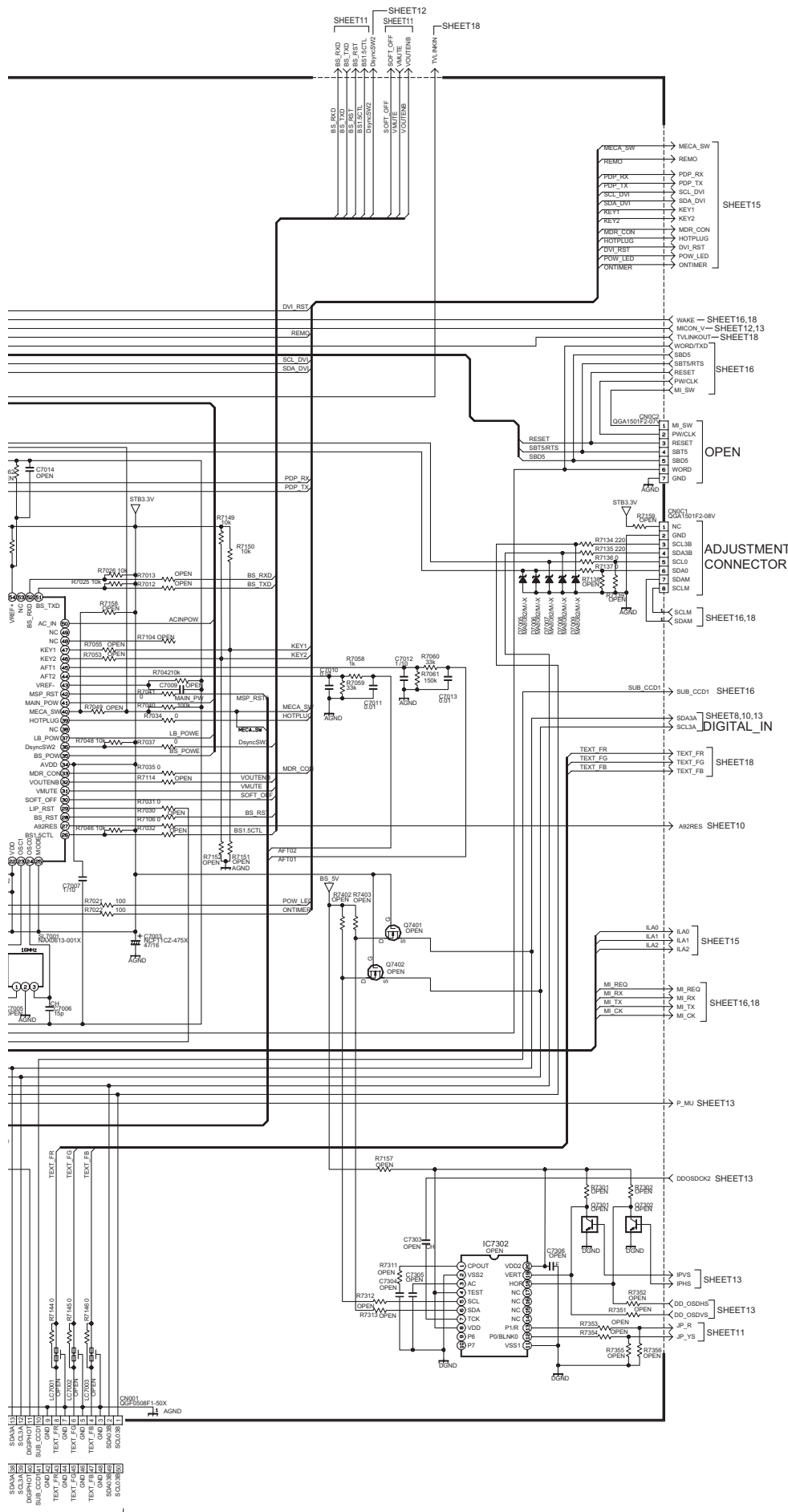
0 : NRSA63J-0R0X

No. YA099

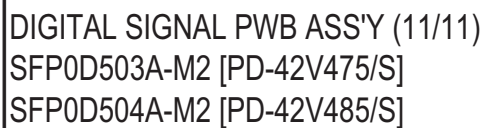
DIGITAL SIGNAL PWB ASS'Y (10/11)
SFP0D503A-M2 [PD-42V475/S]
SFP0D504A-M2 [PD-42V485/S]



NOTES) 1. Please refer to page 2-90 for voltages of this circuit diagram.
2. Please refer to page 2-92 for waveforms of this circuit diagram.



ET3)



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INTERFACE PWB CIRCUIT DIAGRAM (1/2) SHEET19

AUDIO PWB
CN600C (SHEET21)

DIGITAL SIGNAL PWB (8/11)
CN0FC (SHEET15)

TEMP SENSOR PWB
CN800V (SHEET24)

SHEET20

OPEN

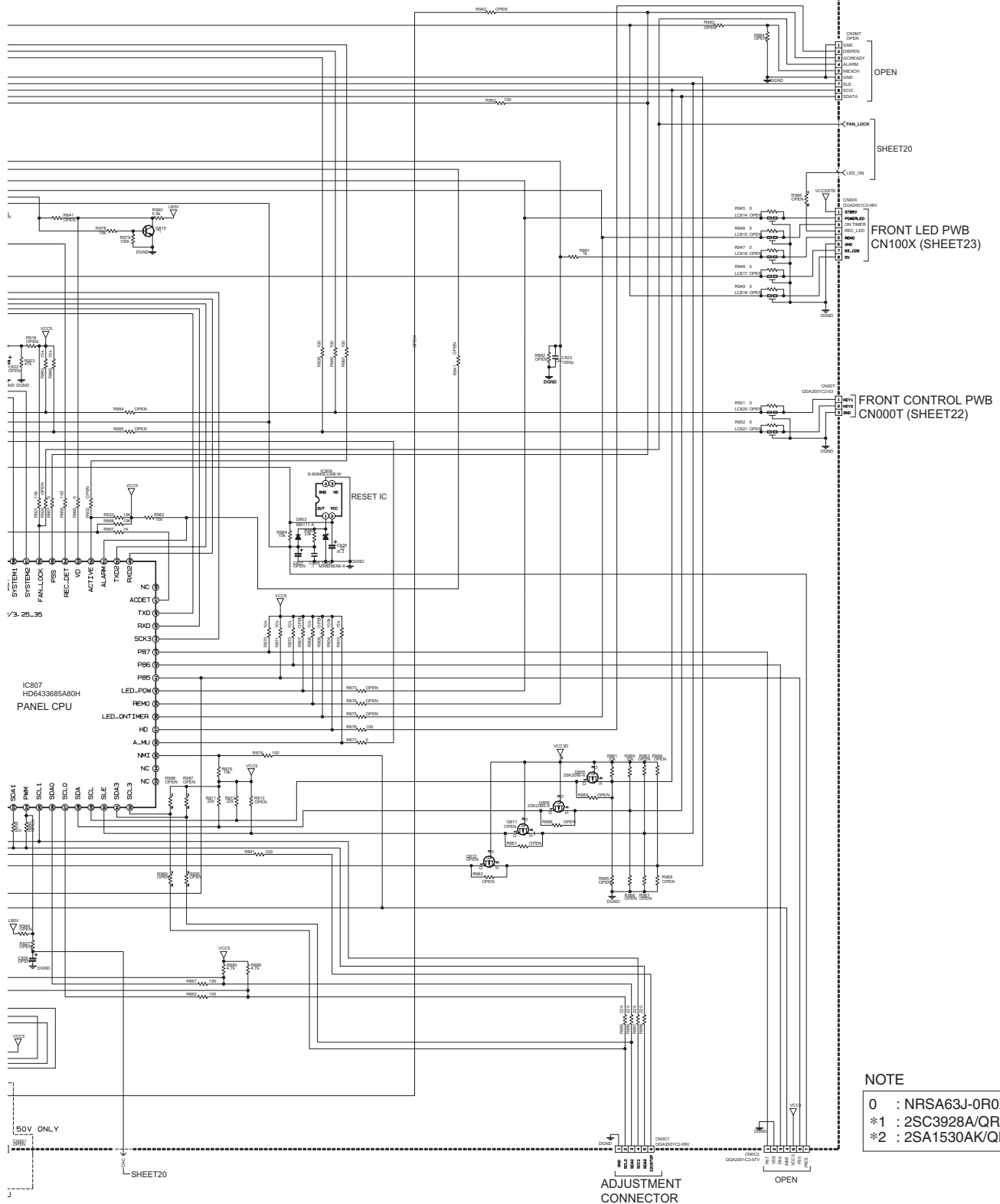
AUDIO PWB
CN 600B (SHEET21)

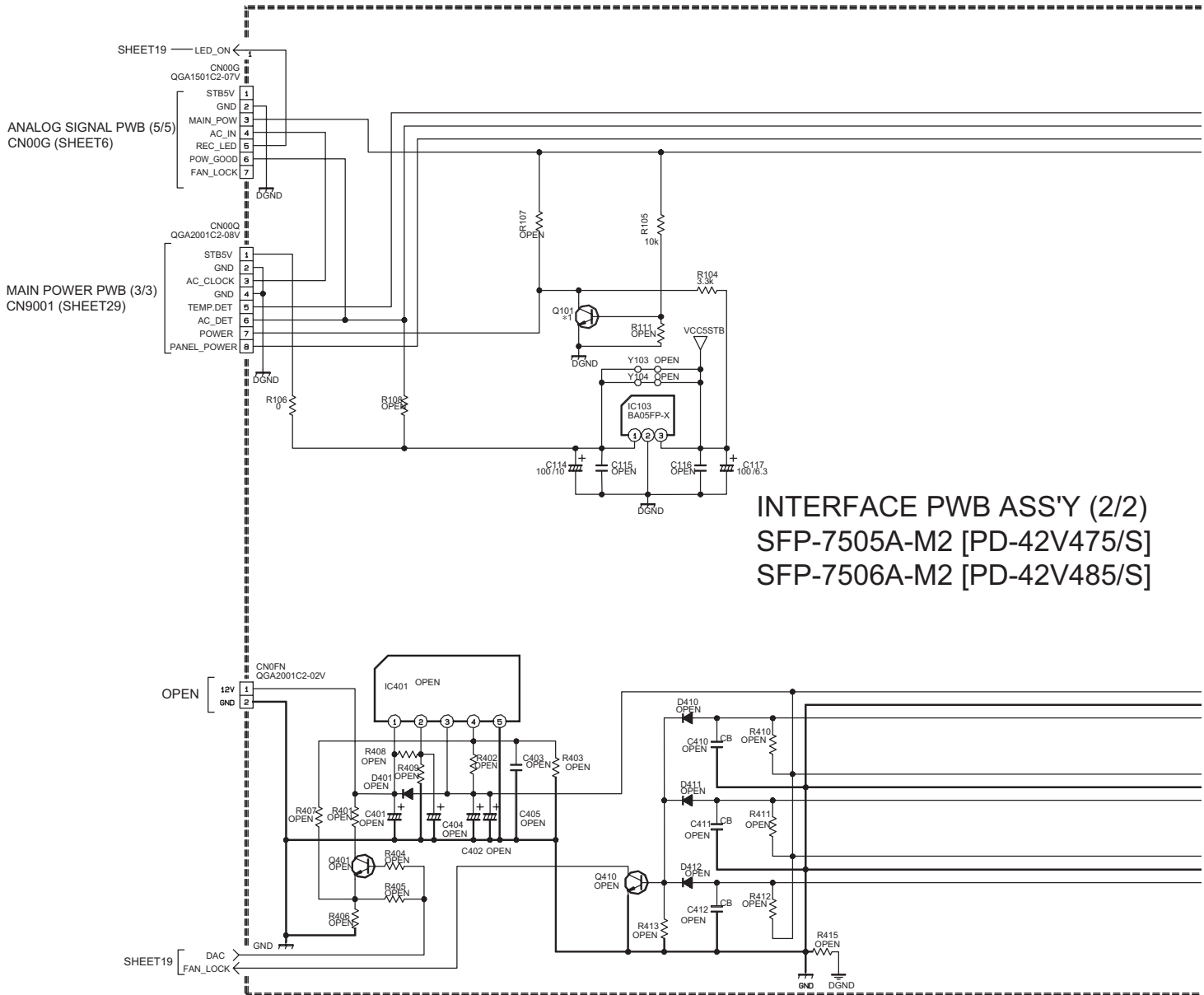
SHEET20

OPEN

- NOTES) 1. Please refer to page 2-91 for voltages of this circuit diagram.
2. Please refer to page 2-92 for waveforms of this circuit diagram.

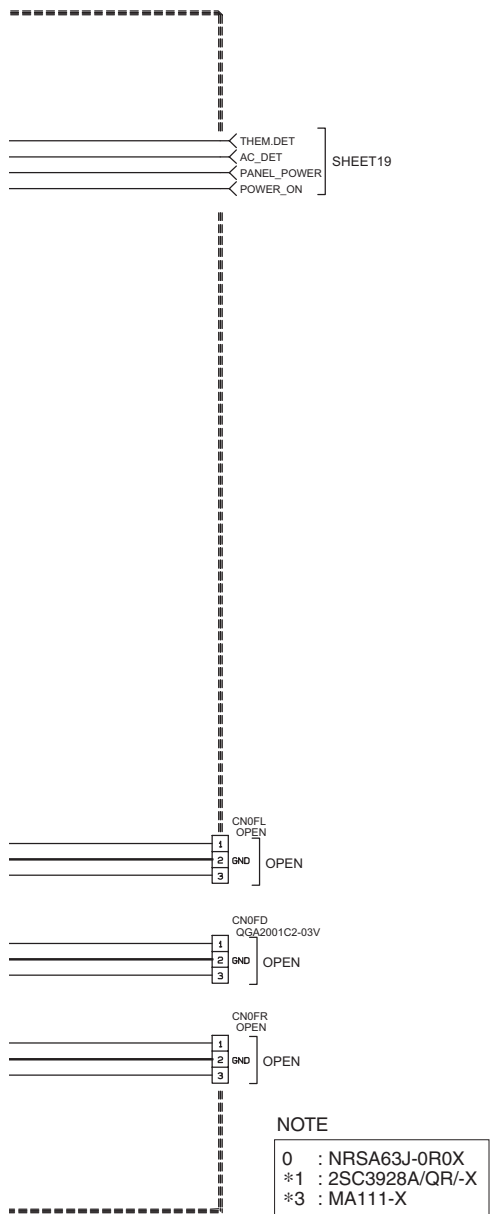
INTERFACE PWB ASS'Y (1/2) SFP-7505A-M2 [PD-42V475/S] SFP-7506A-M2 [PD-42V485/S]

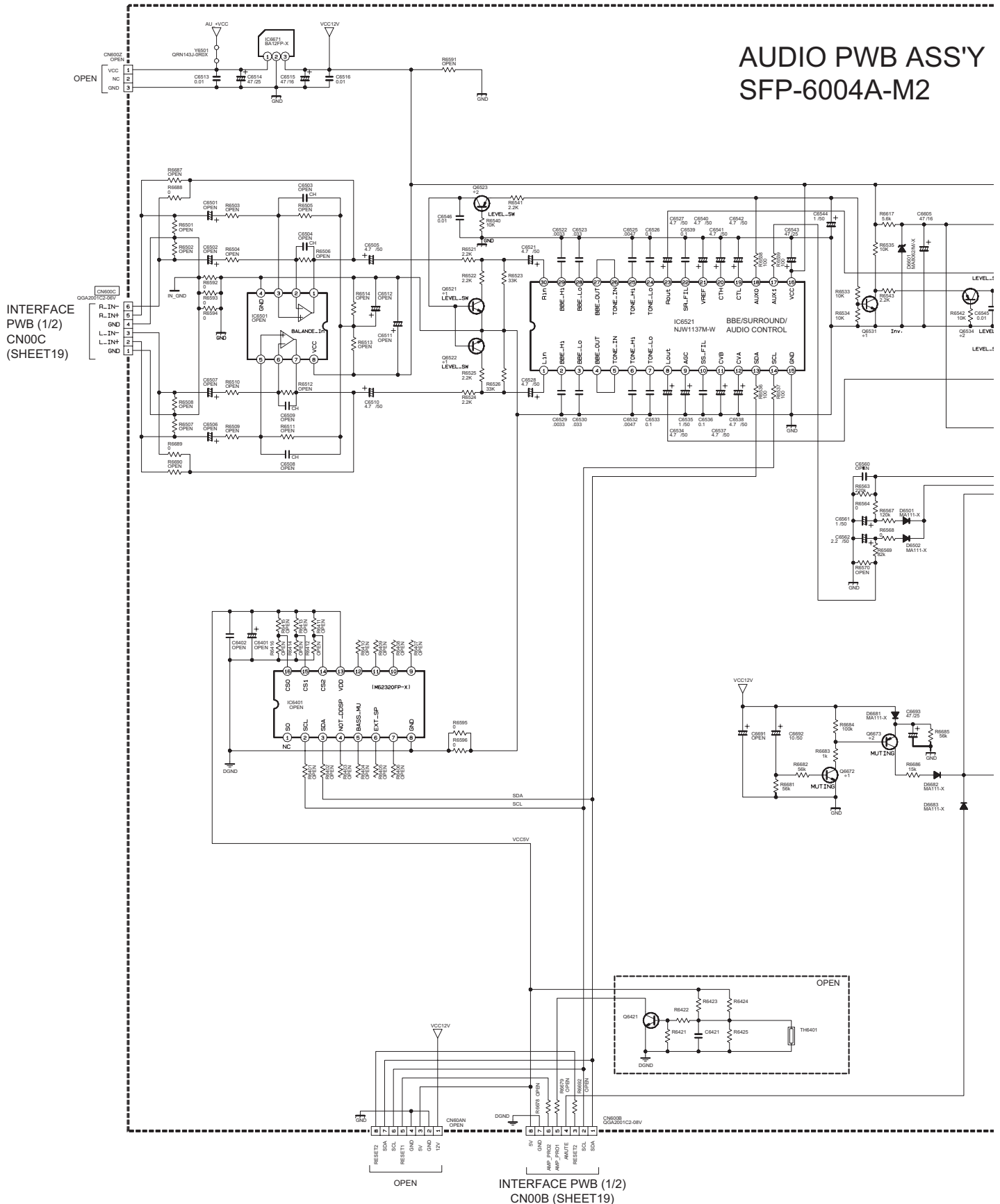




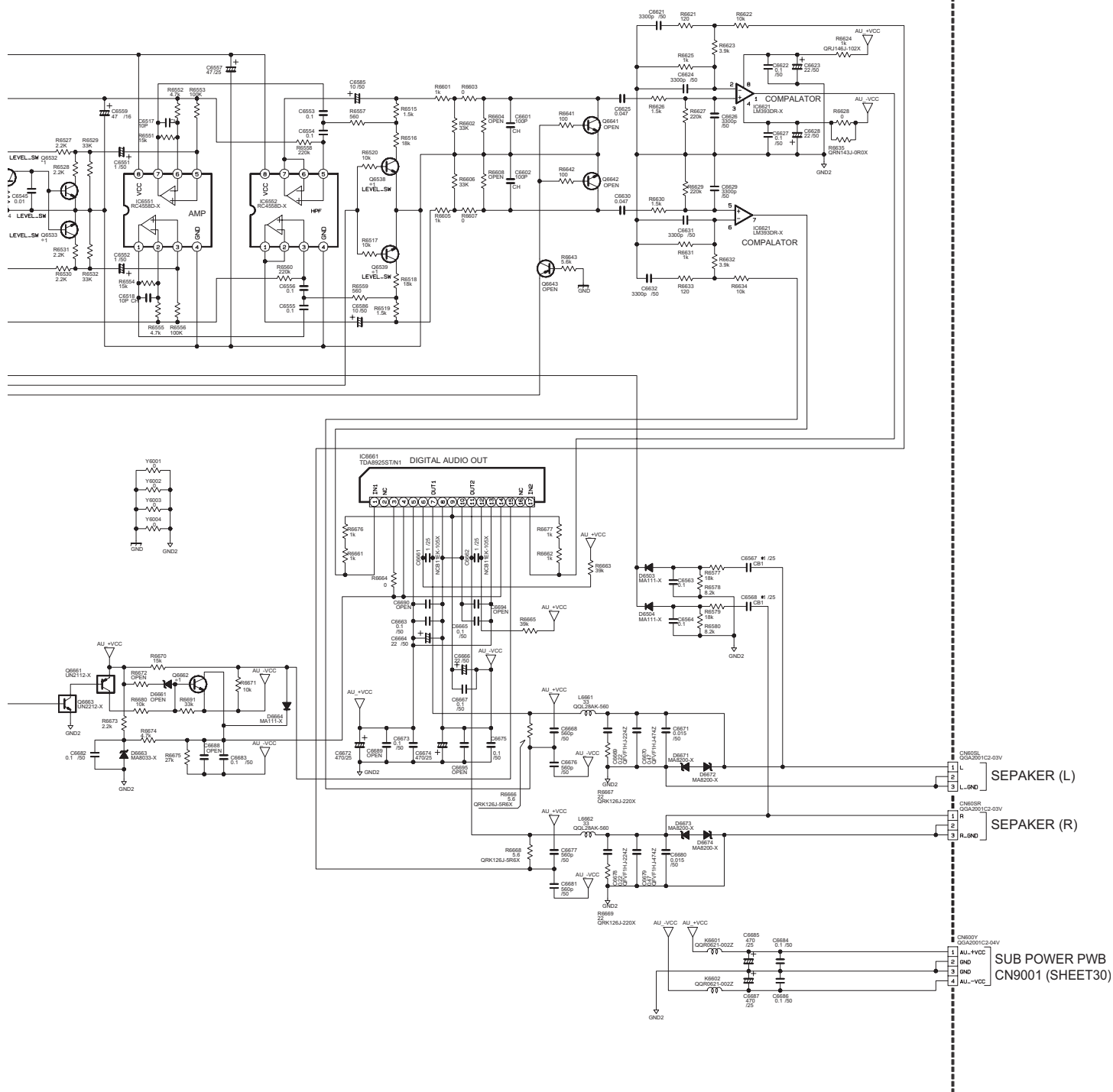
INTERFACE PWB ASS'Y (2/2)
SFP-7505A-M2 [PD-42V475/S]
SFP-7506A-M2 [PD-42V485/S]

NOTES) Please refer to page 2-91 for voltages of this circuit diagram.





Y

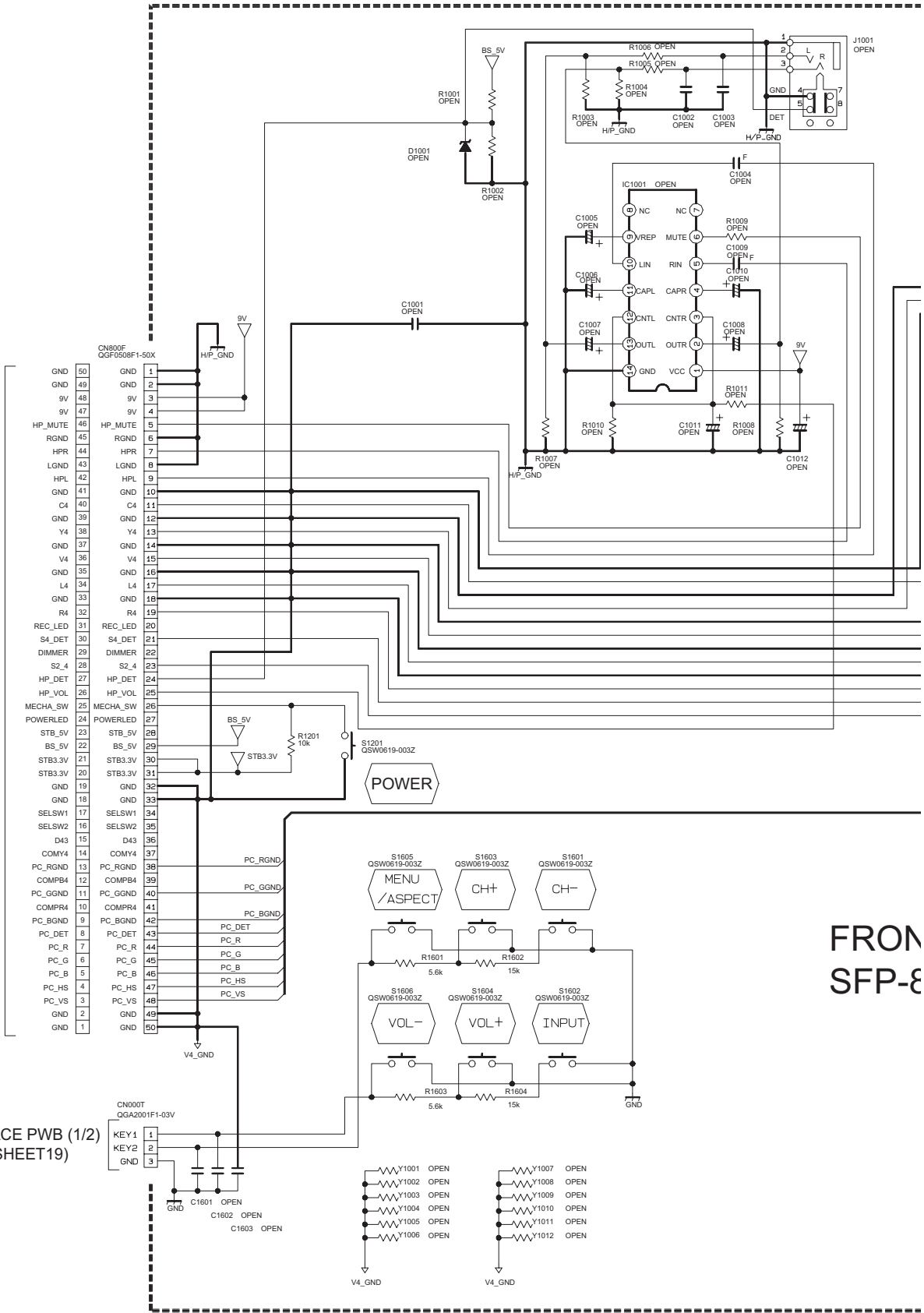


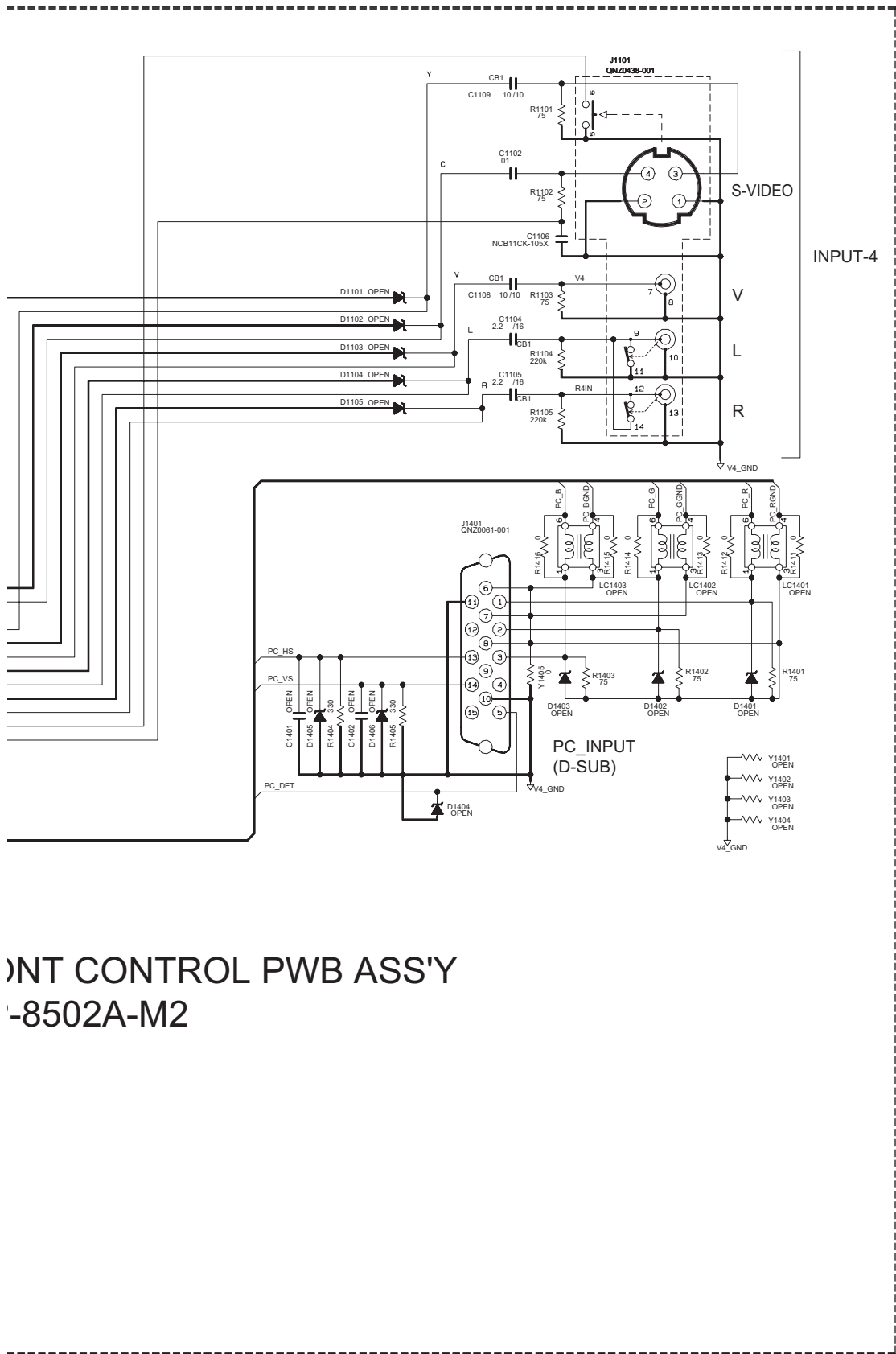
NOTE

0 : NRSA63J-0R0X
 *1 : 2SC3928A/QR/-X
 *2 : 2SA1530A/QR/-X

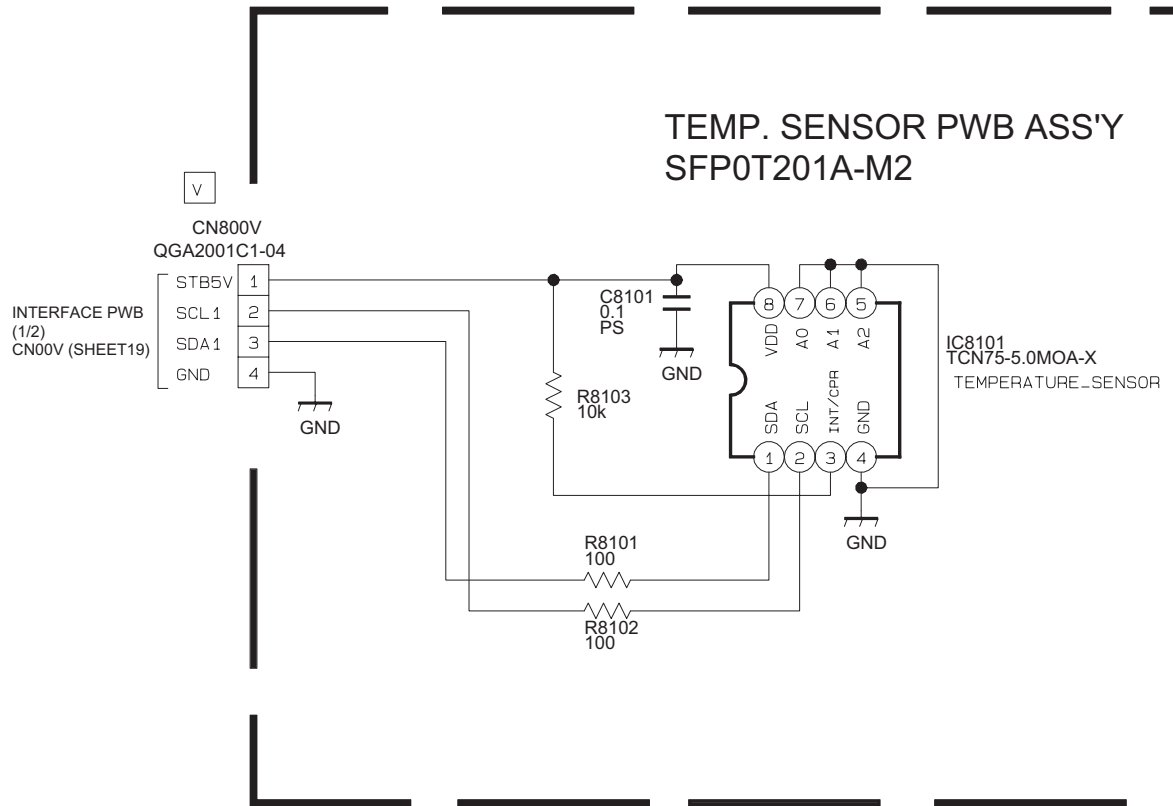
ANALOG SIGNAL PWB (1/5)
CN00F (SHEET2)

INTERFACE PWB (1/2)
CN00T (SHEET19)







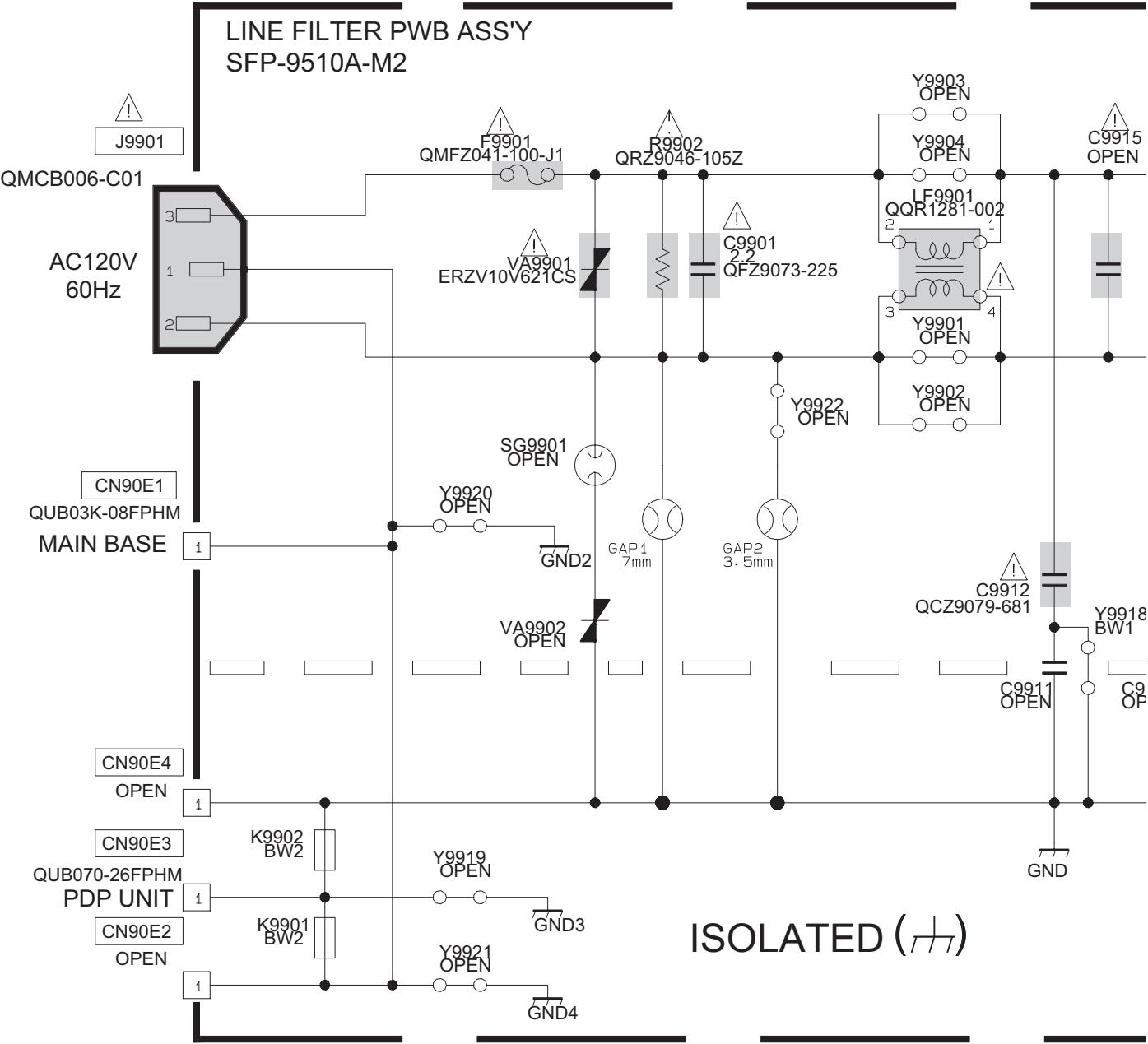


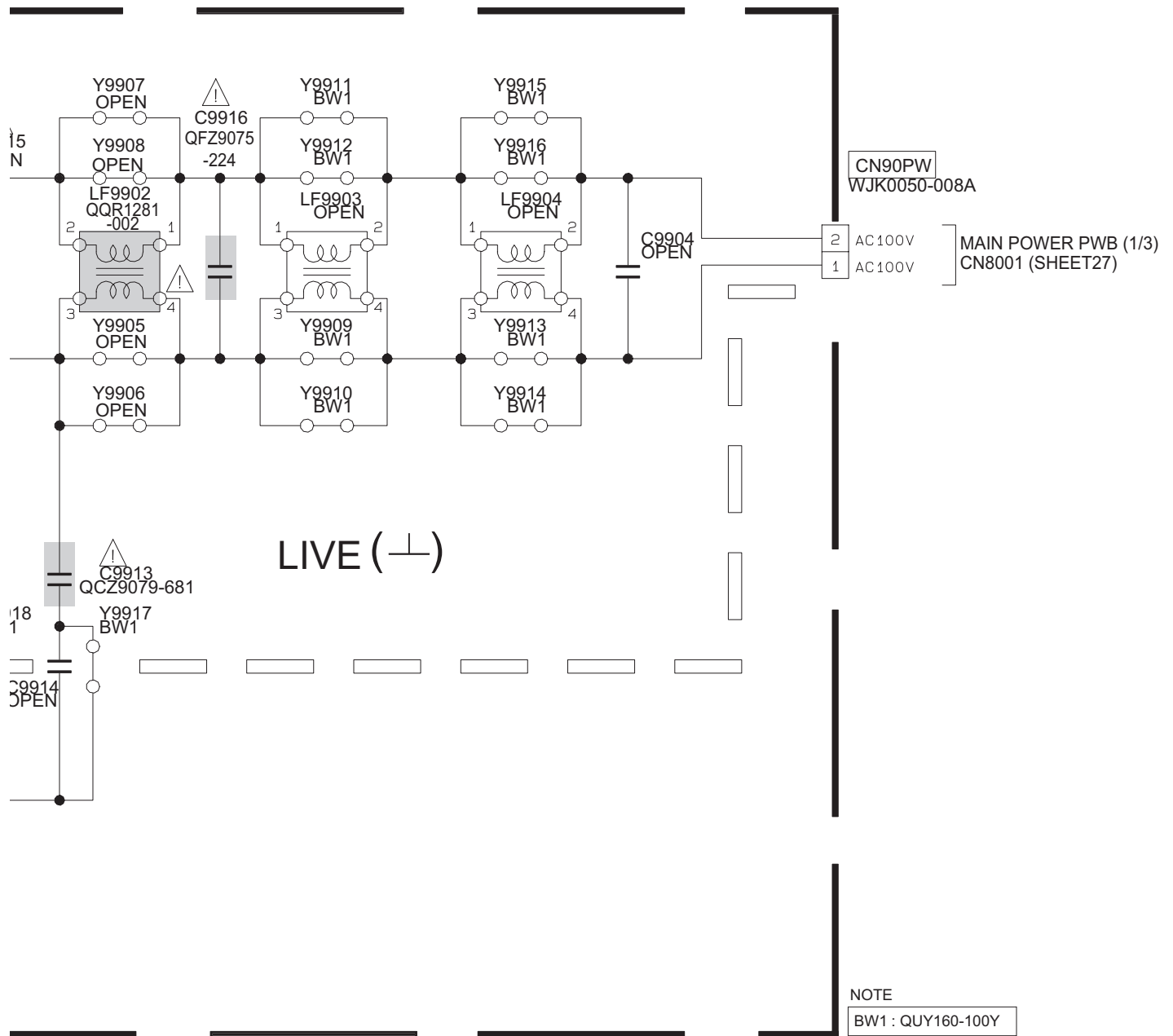
NOTE) Please refer to page 2-91 for voltages of this circuit diagram.

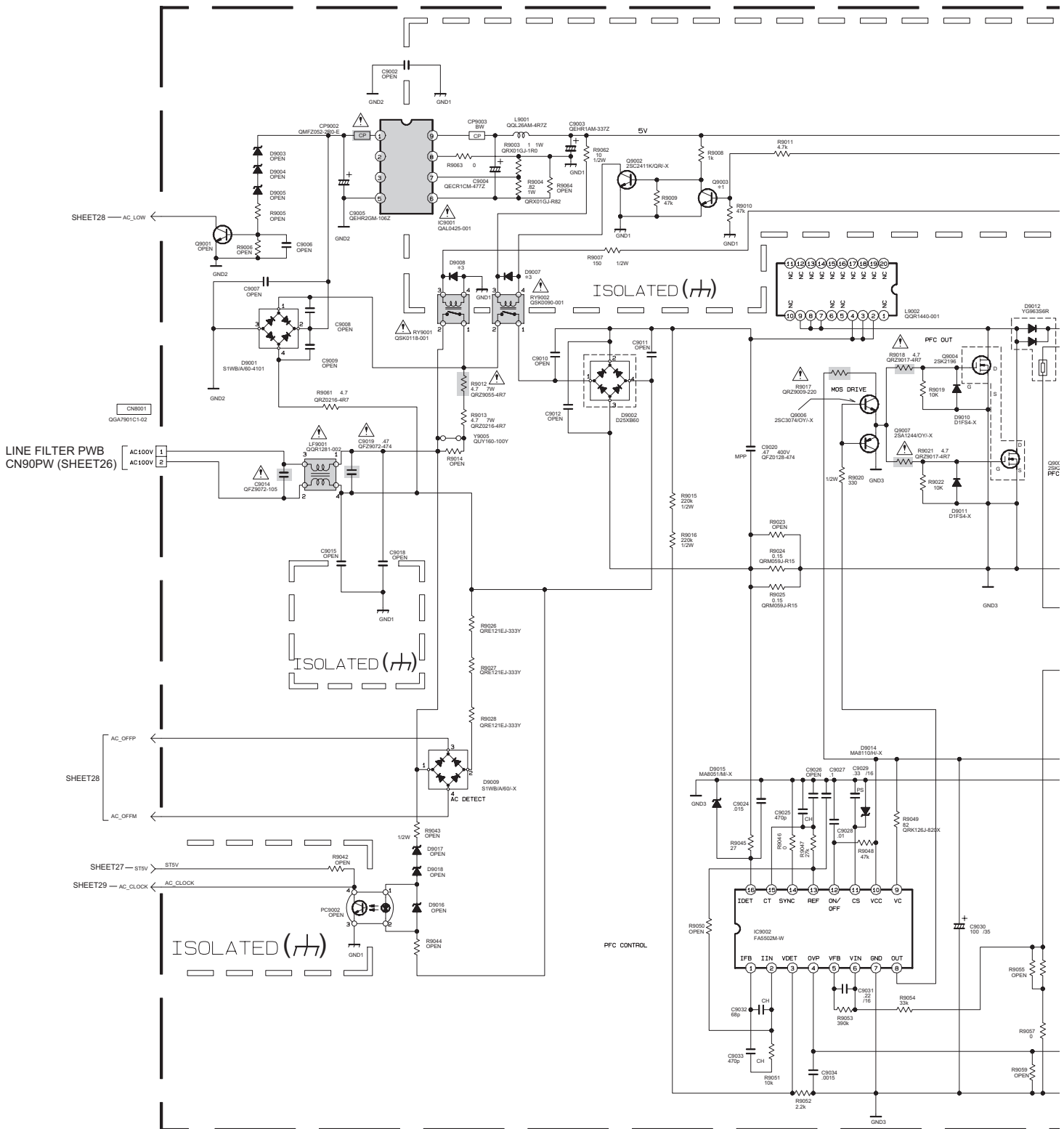
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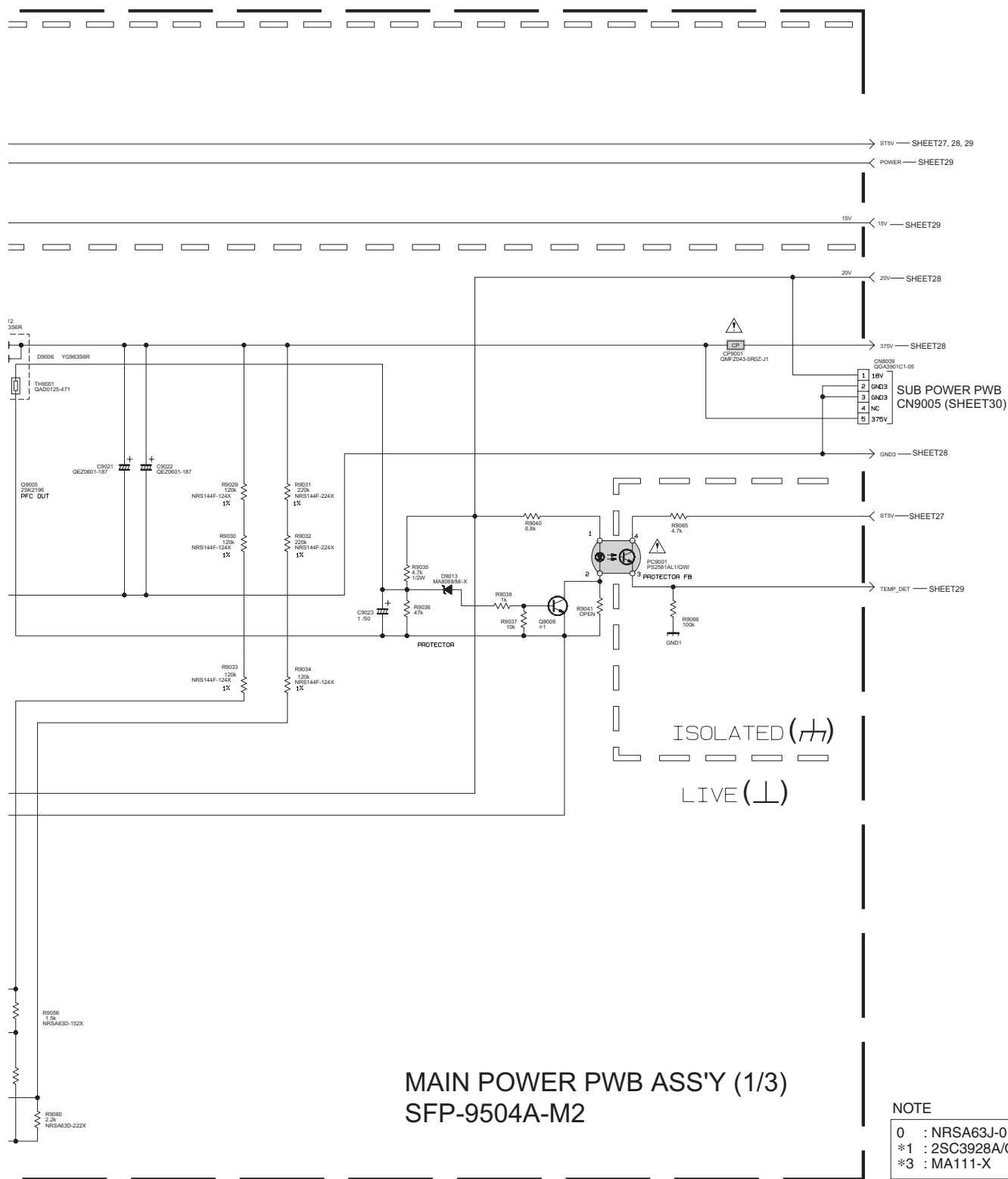
2-56



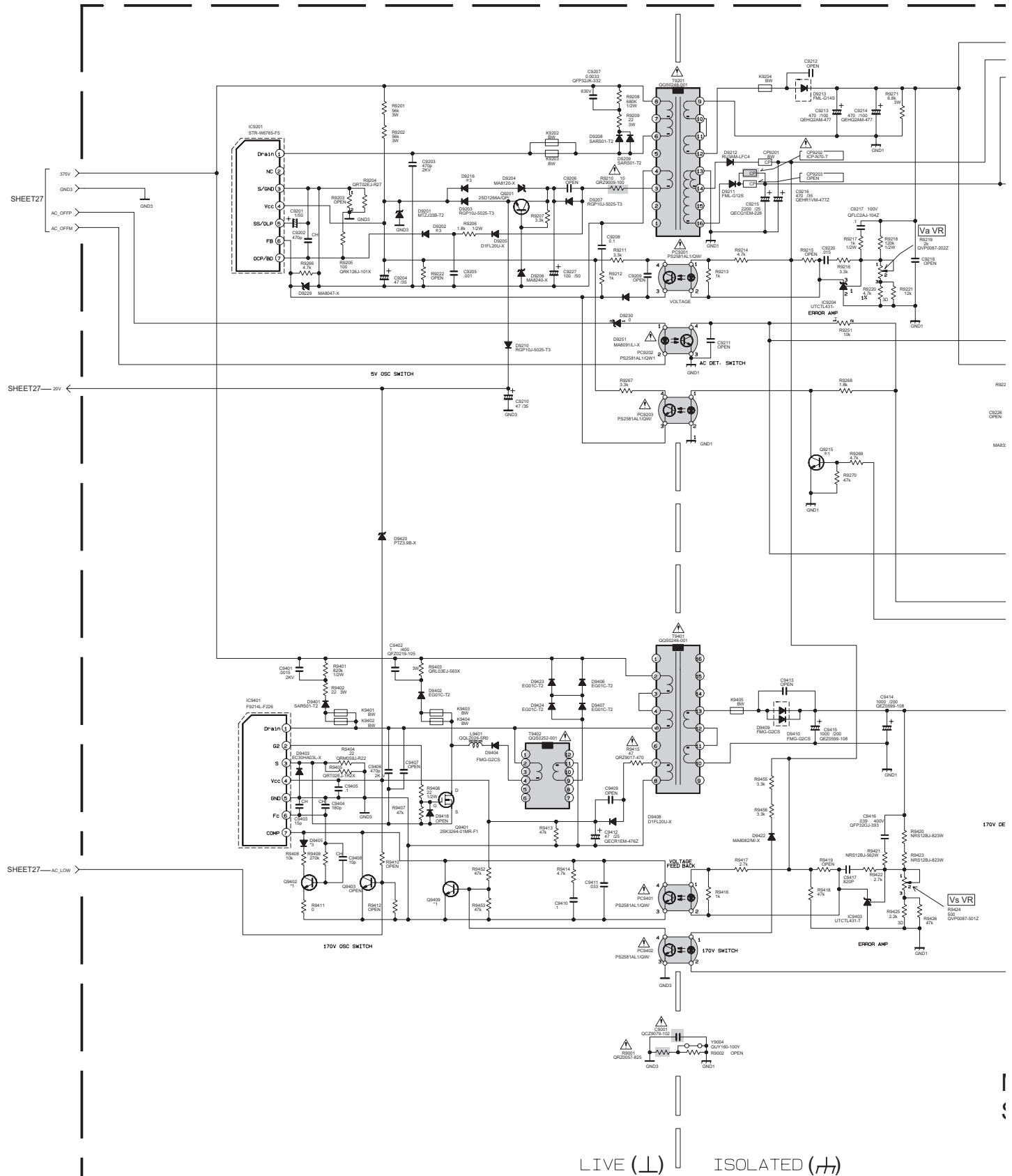




NOTE) Please refer to page 2-91 for voltages of this circuit diagram.

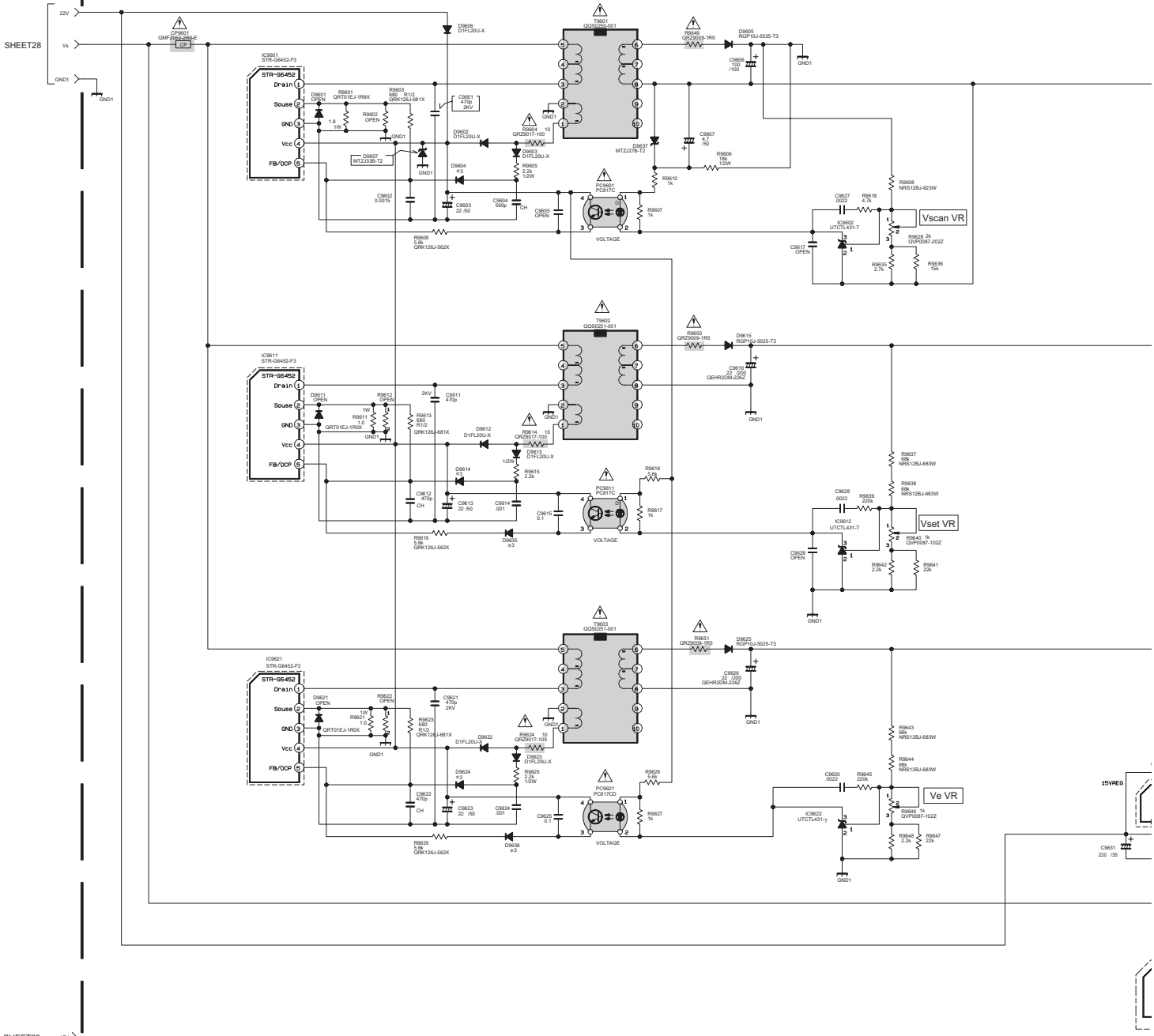


MAIN PWB CIRCUIT DIAGRAM (2/3) SHEET28

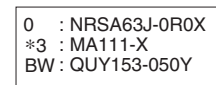


NOTE) Please refer to page 2-91 for voltages of this circuit diagram.

MAIN POWER PWB ASS'Y (3/3) SFP-9504A-M2



NOTE) Please refer to page 2-91 for voltages of this circuit diagram.



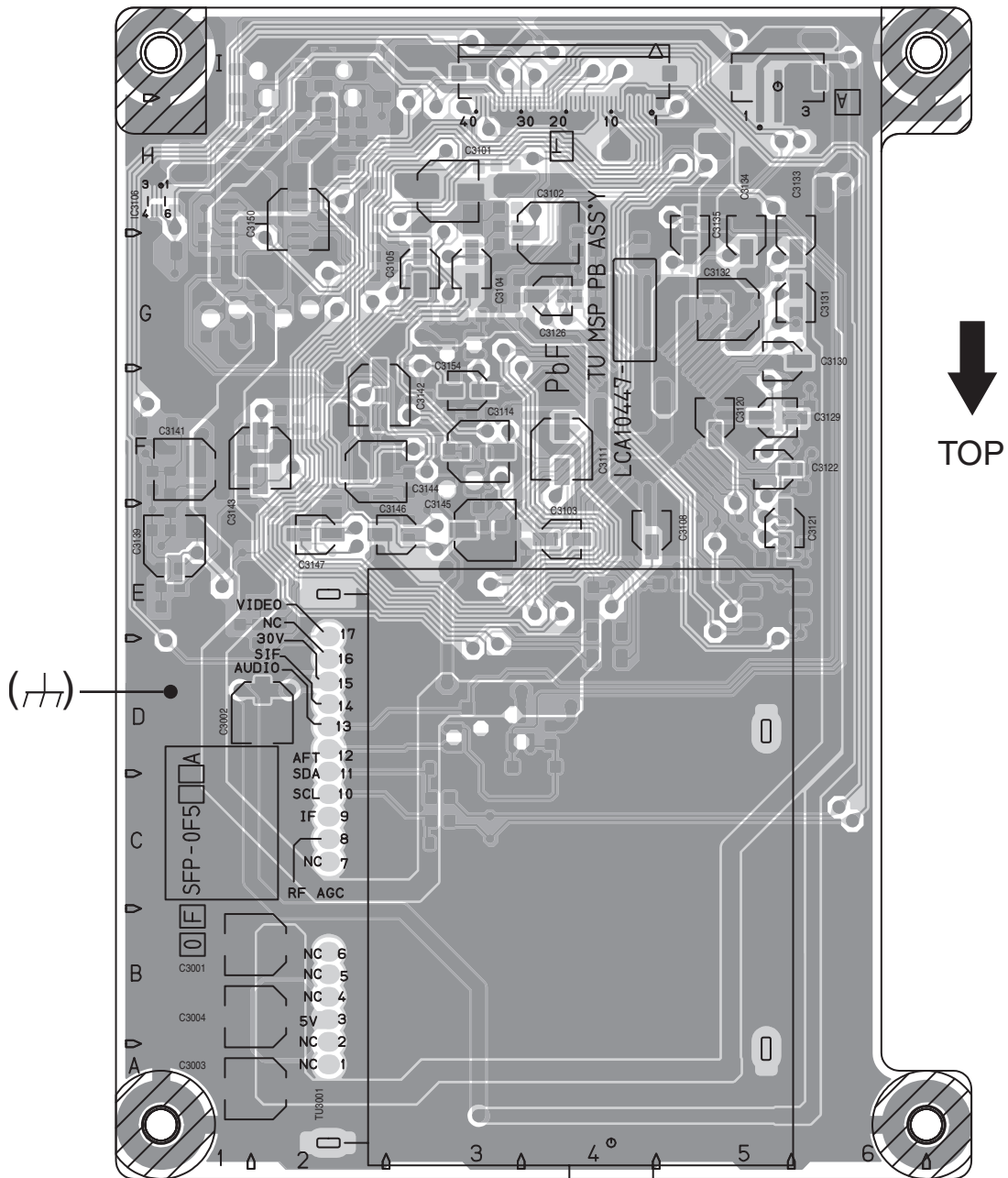
MAIN POWER PWB (1/3)
CN8009 (SHEET27)

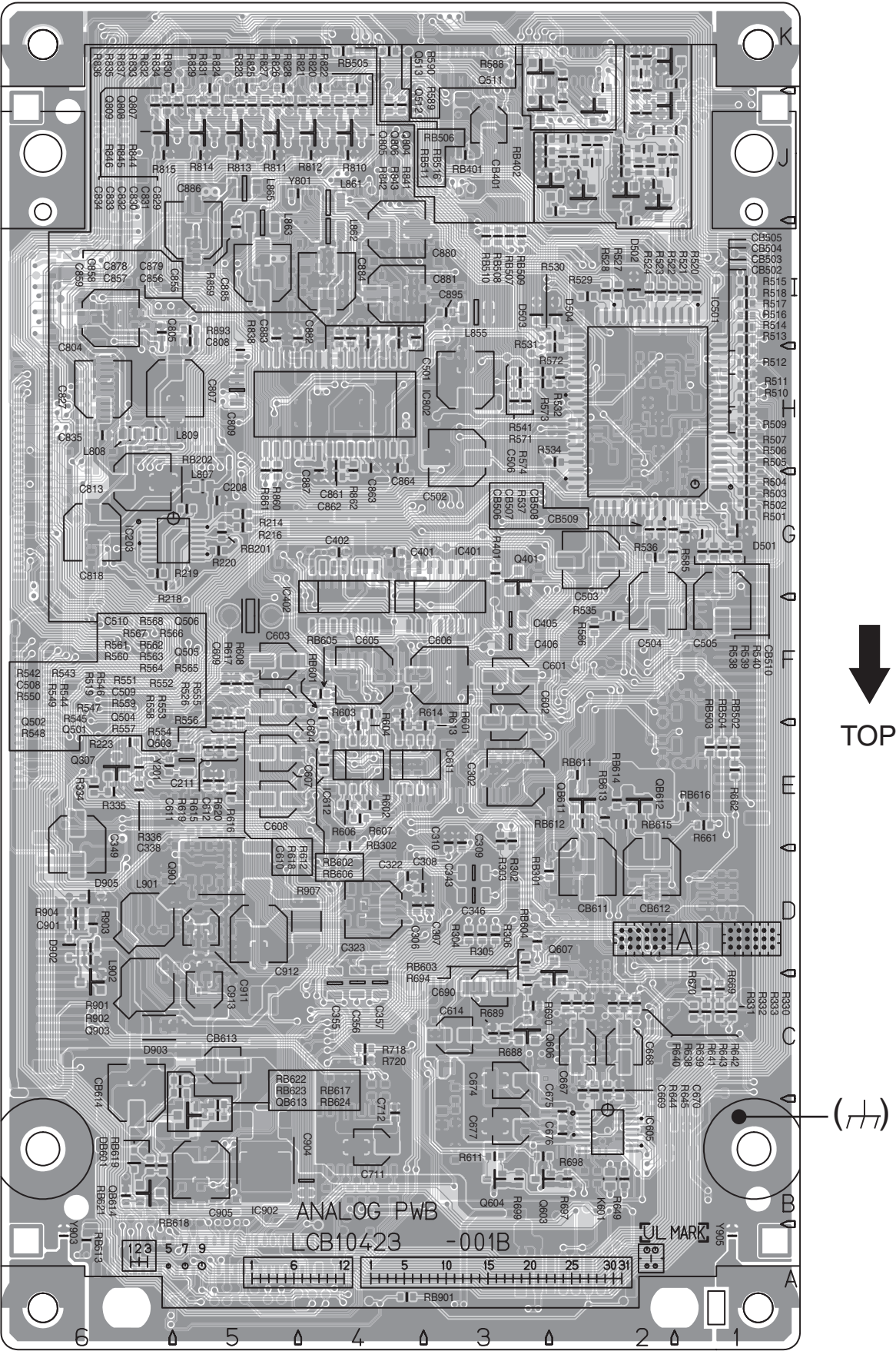


RECEIVER PWB PATTERN [SOLDER SIDE]



RECEIVER PWB PATTERN [PARTS SIDE]

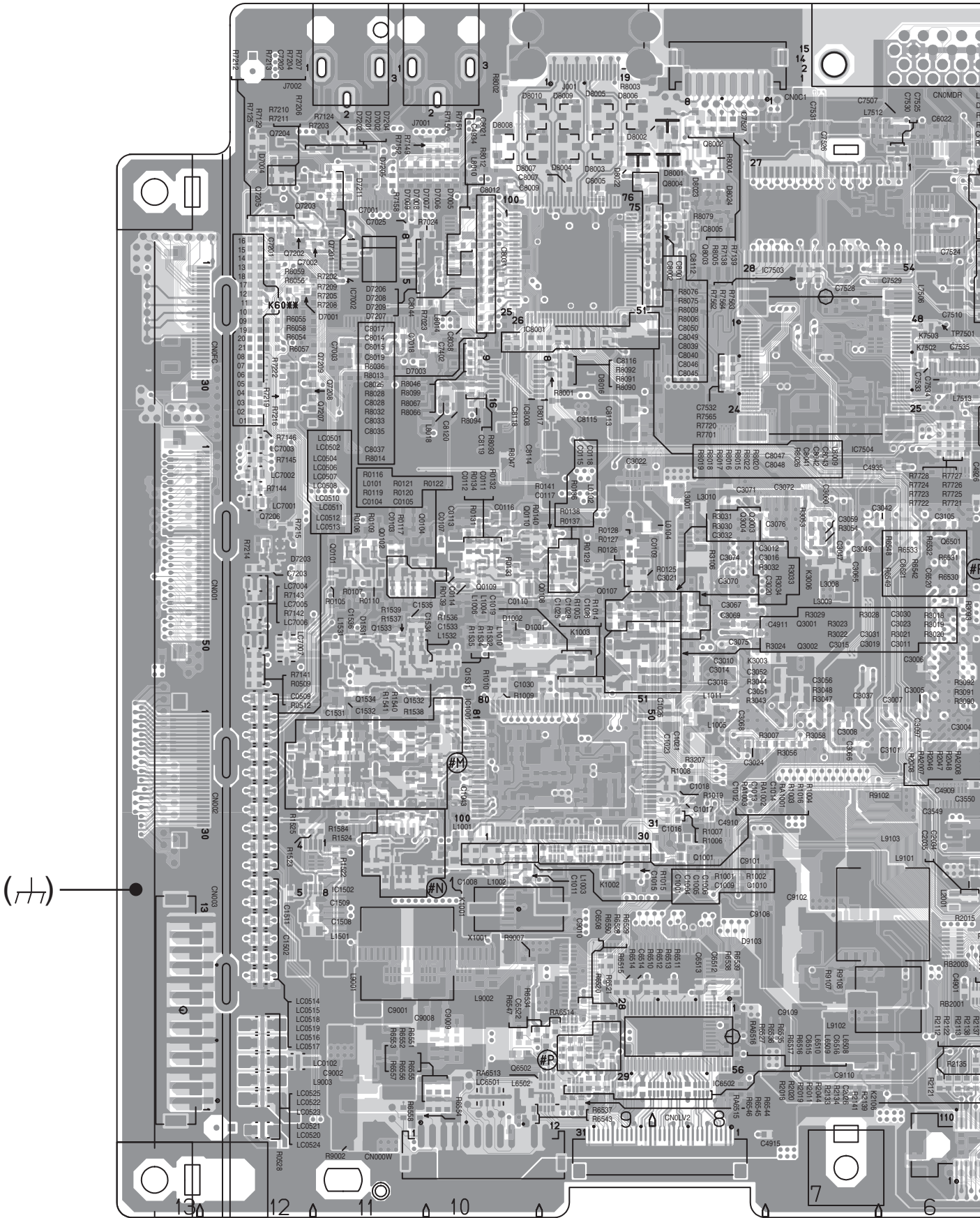


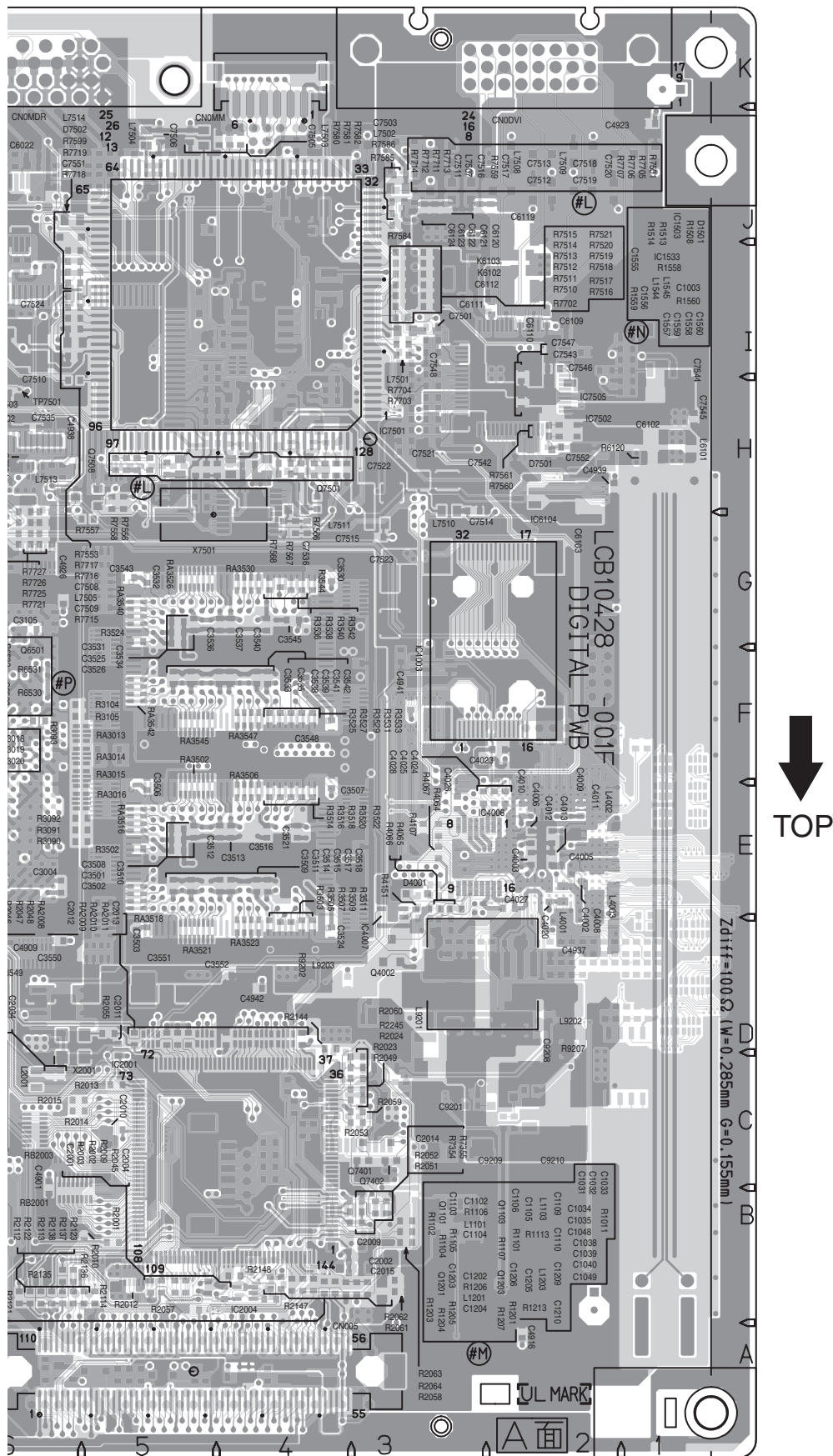


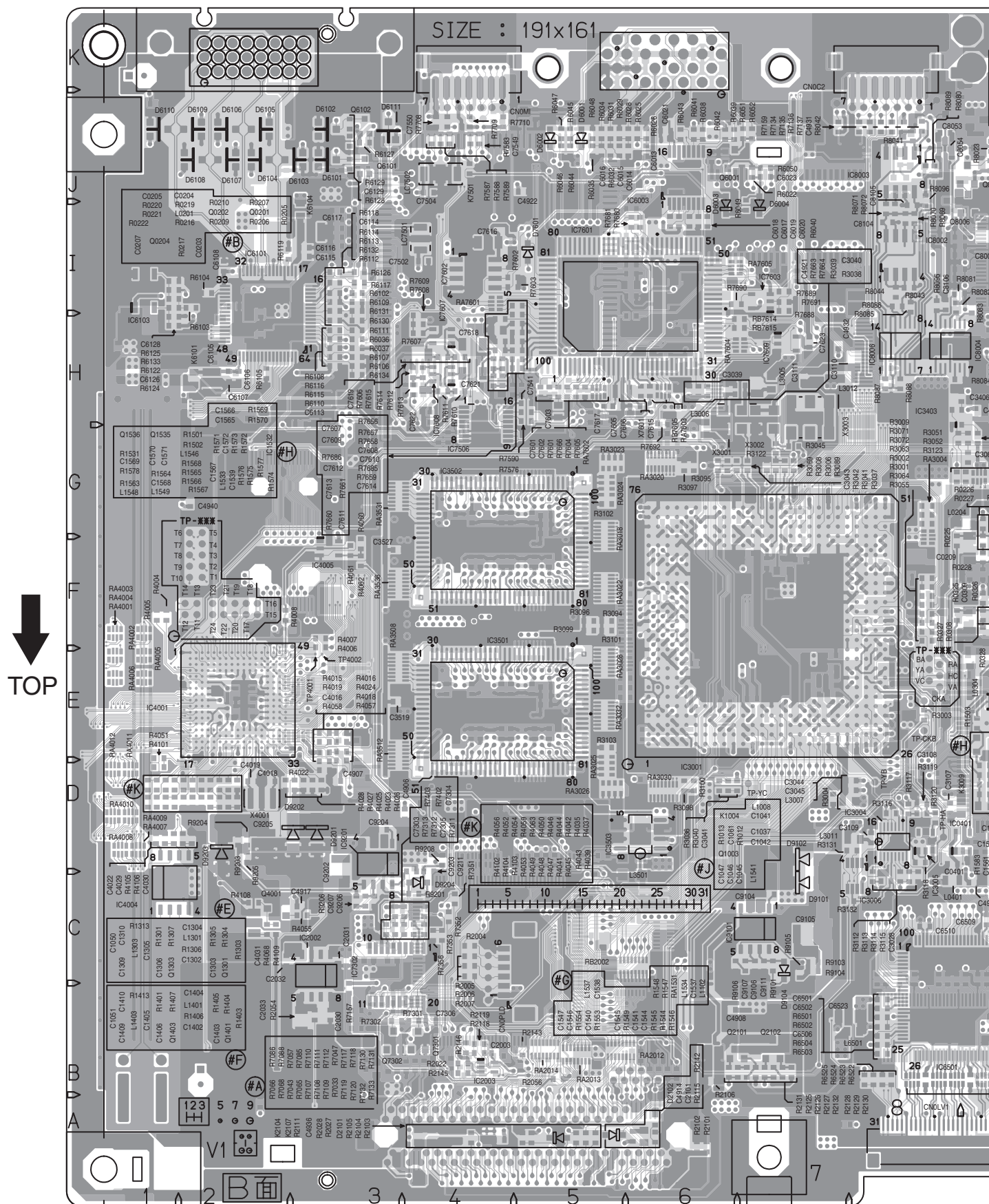
↓
TOP

$$-(\top)$$

AV JACK PWB PATTERN [SOLDER SIDE]

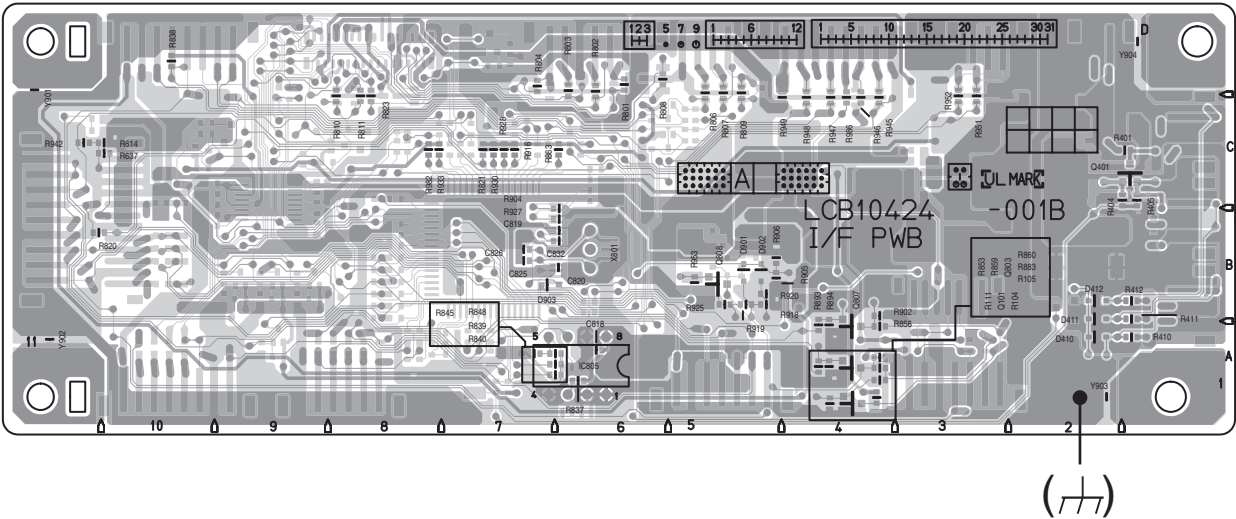






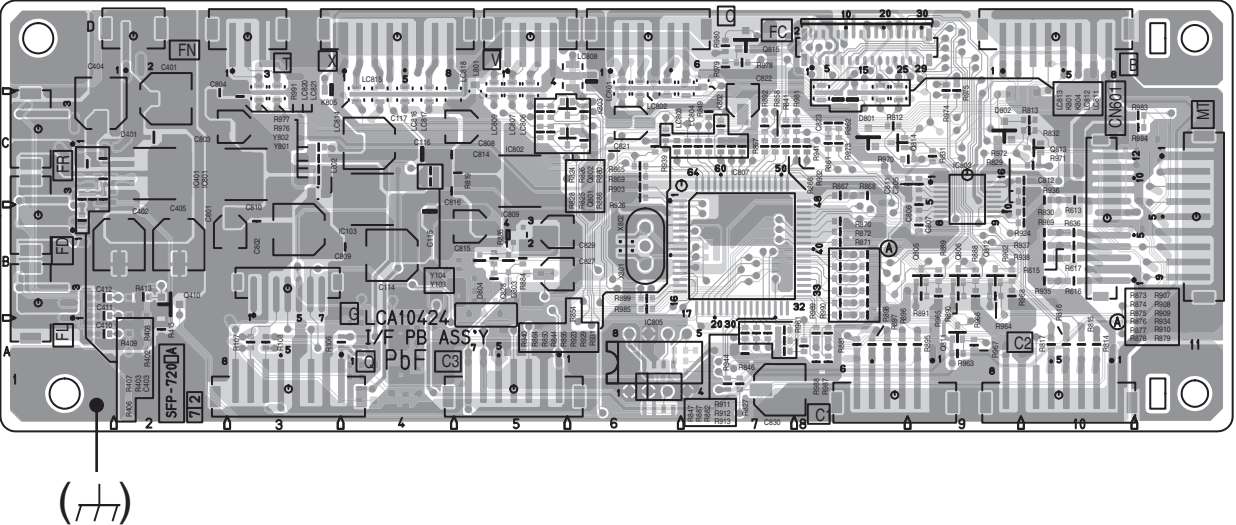
INTERFACE PWB PATTERN [SOLDER SIDE]

TOP

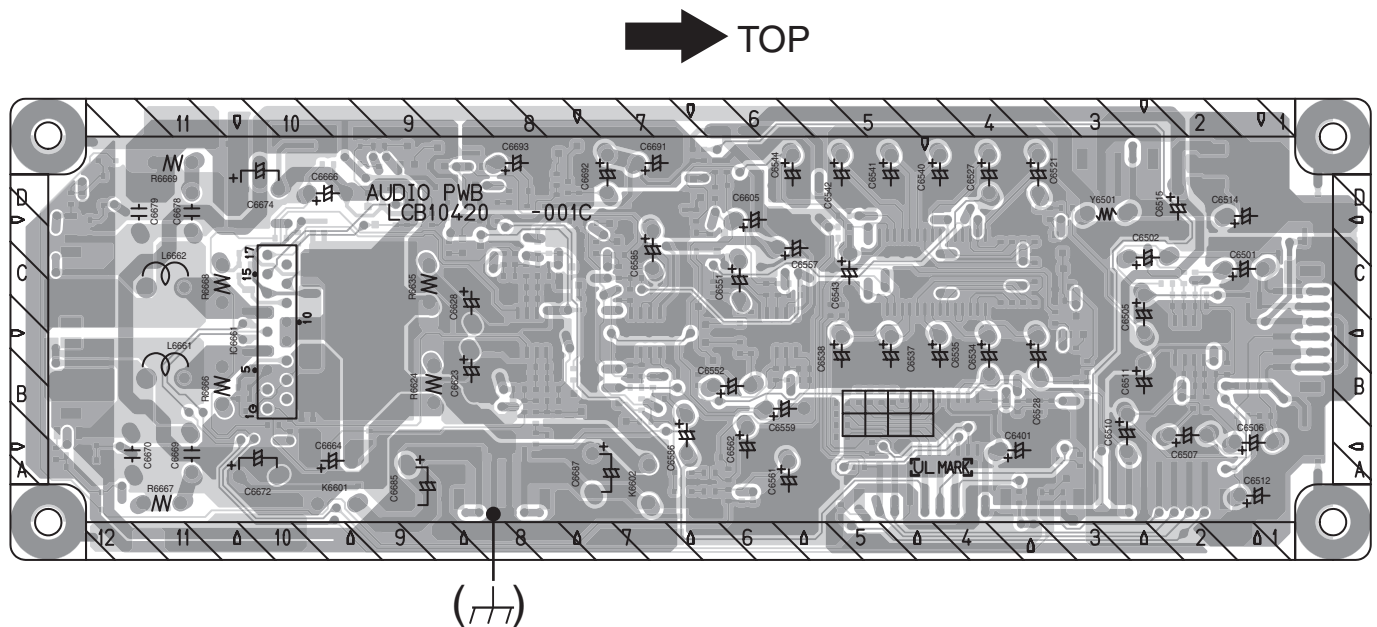


INTERFACE PWB PATTERN [PARTS SIDE]

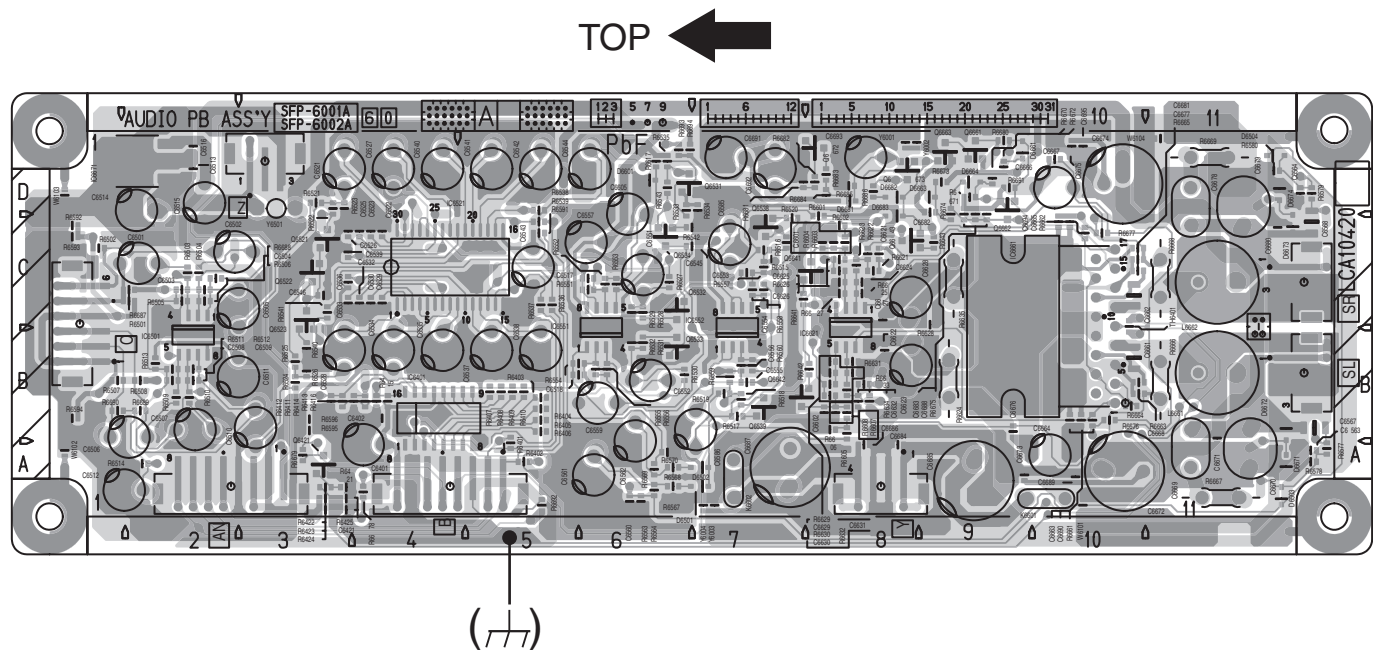
TOP



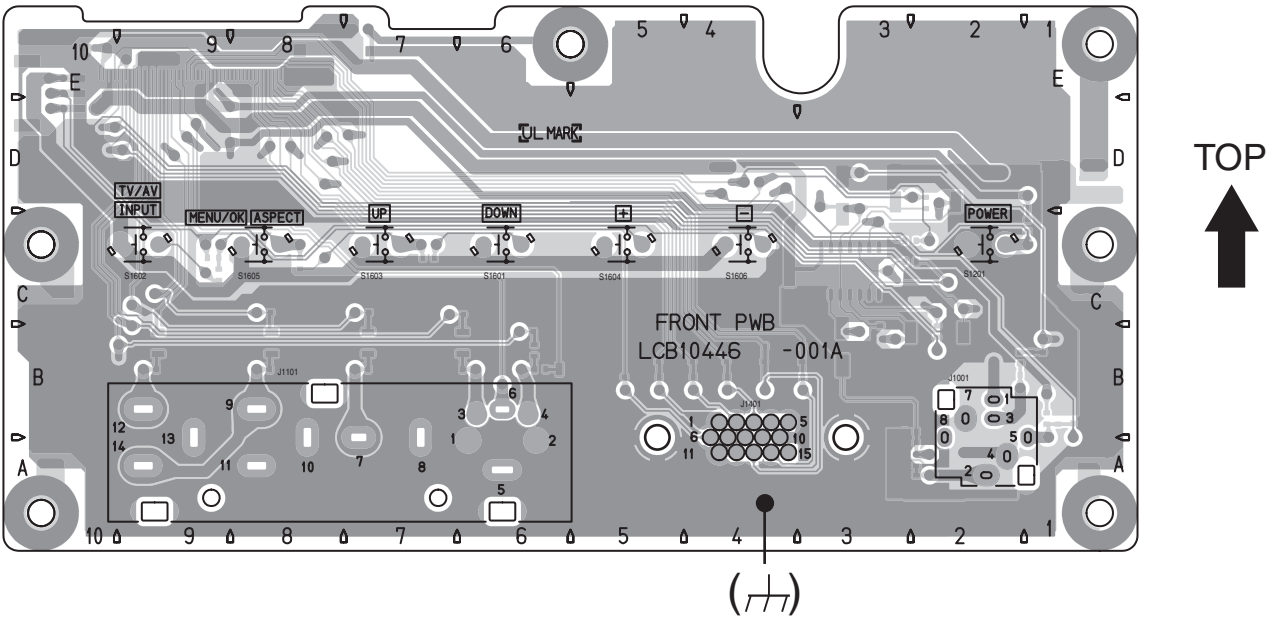
AUDIO PWB PATTERN [SOLDER SIDE]



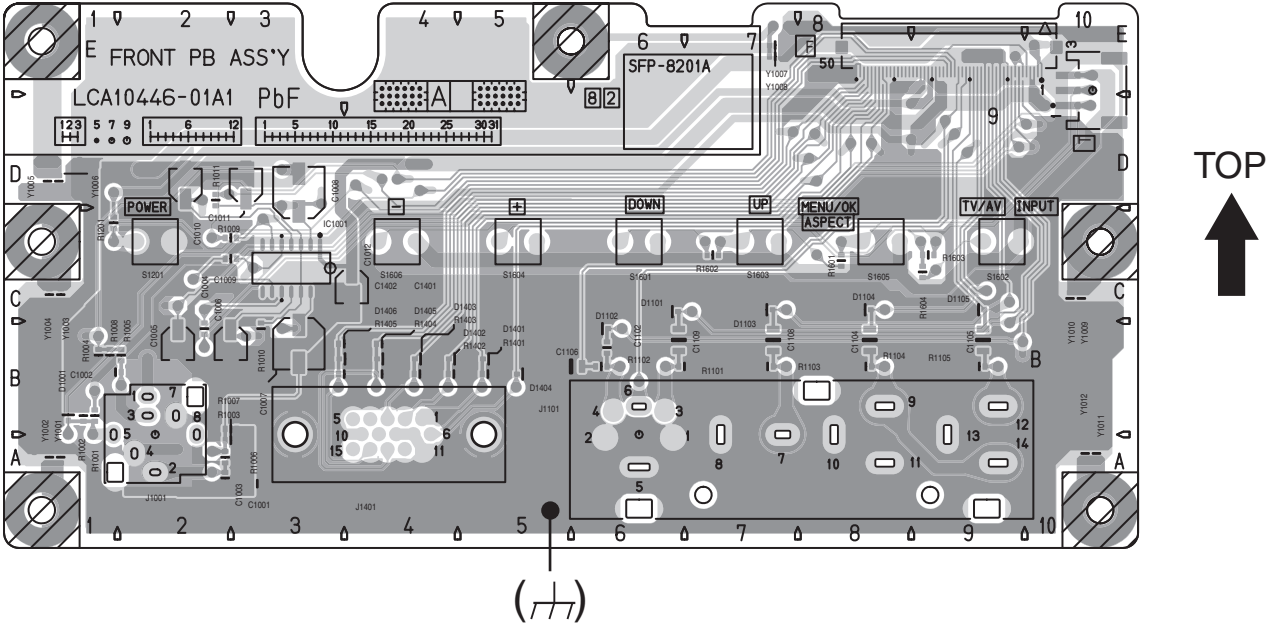
AUDIO PWB PATTERN [PARTS SIDE]



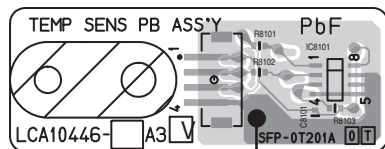
FRONT CONTROL PWB PATTERN [SOLDER SIDE]



FRONT CONTROL PWB PATTERN [PARTS SIDE]

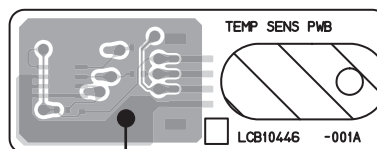


**TEMP. SENSOR PWB PATTERN
[SOLDER SIDE]**



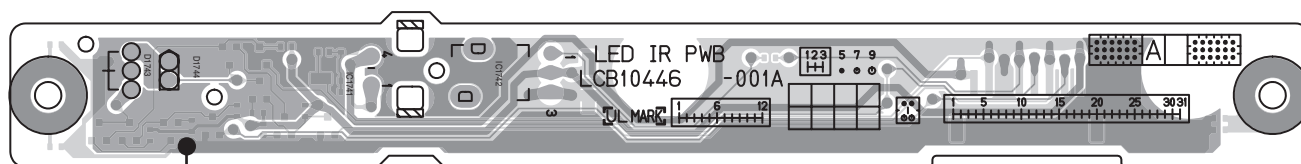
TOP

**TEMP. SENSOR PWB PATTERN
[PARTS SIDE]**



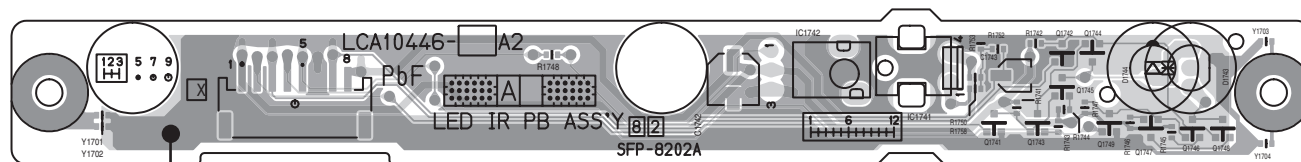
TOP

FRONT LED PWB PATTERN [SOLDER SIDE]

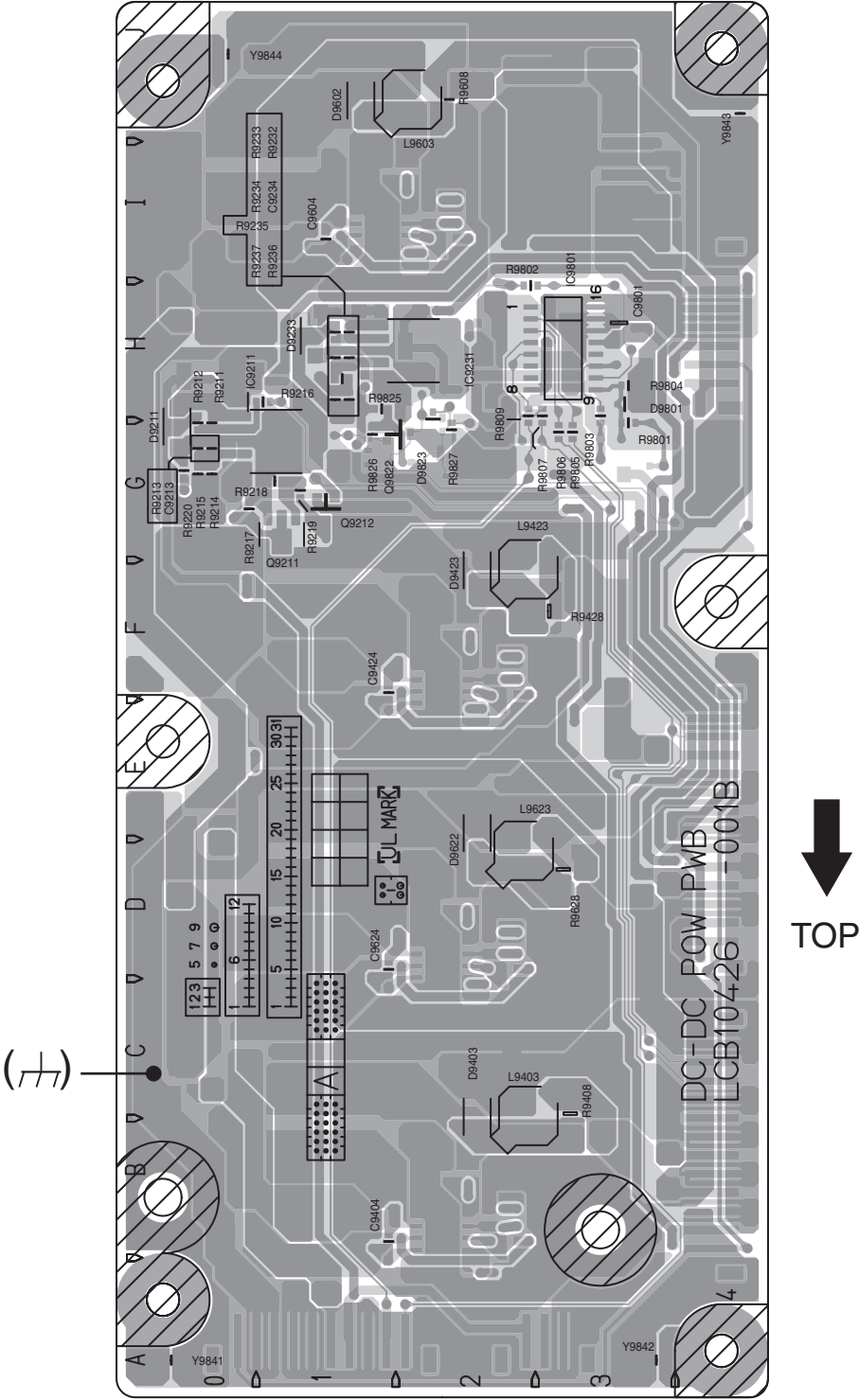


TOP

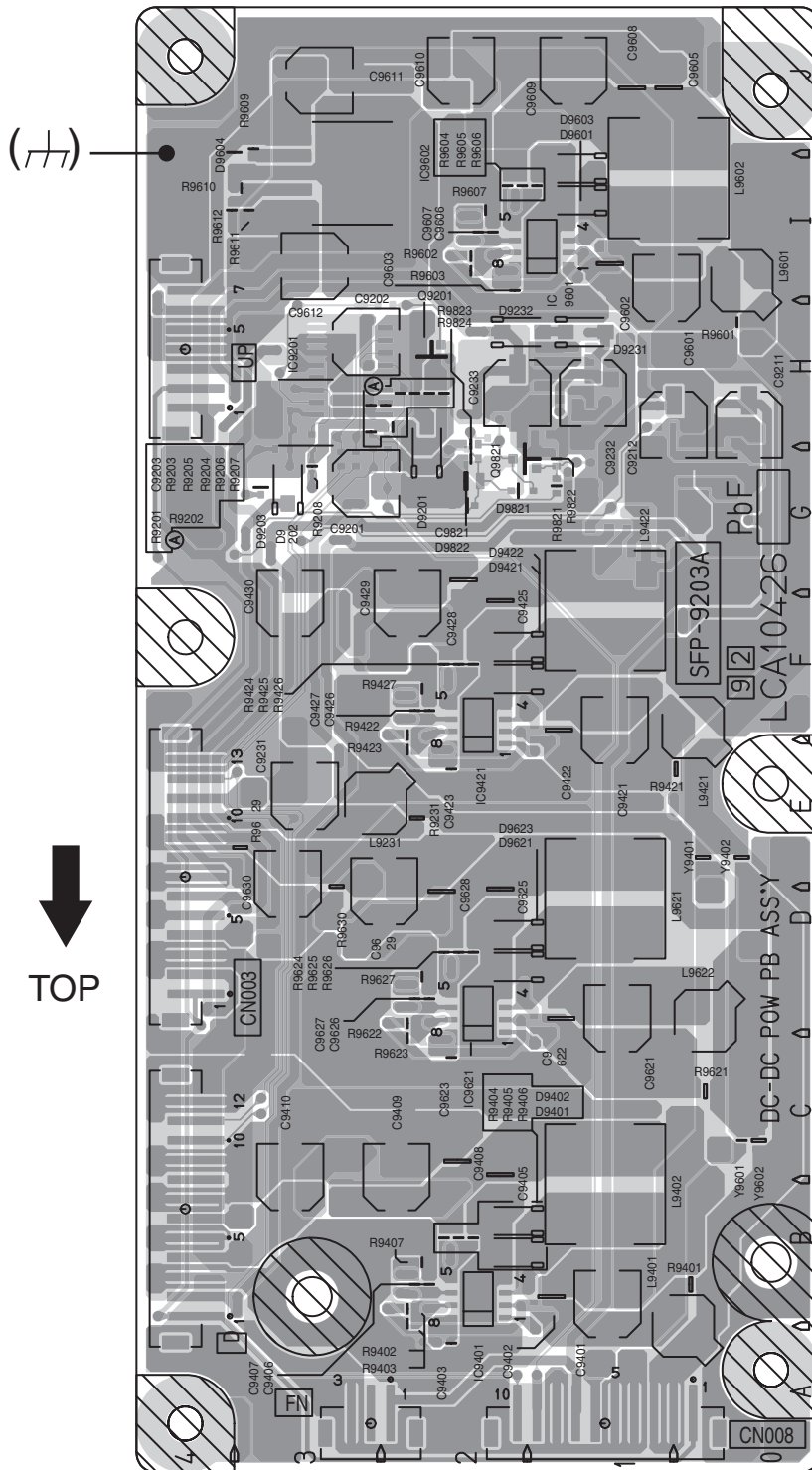
FRONT LED PWB PATTERN [PARTS SIDE]



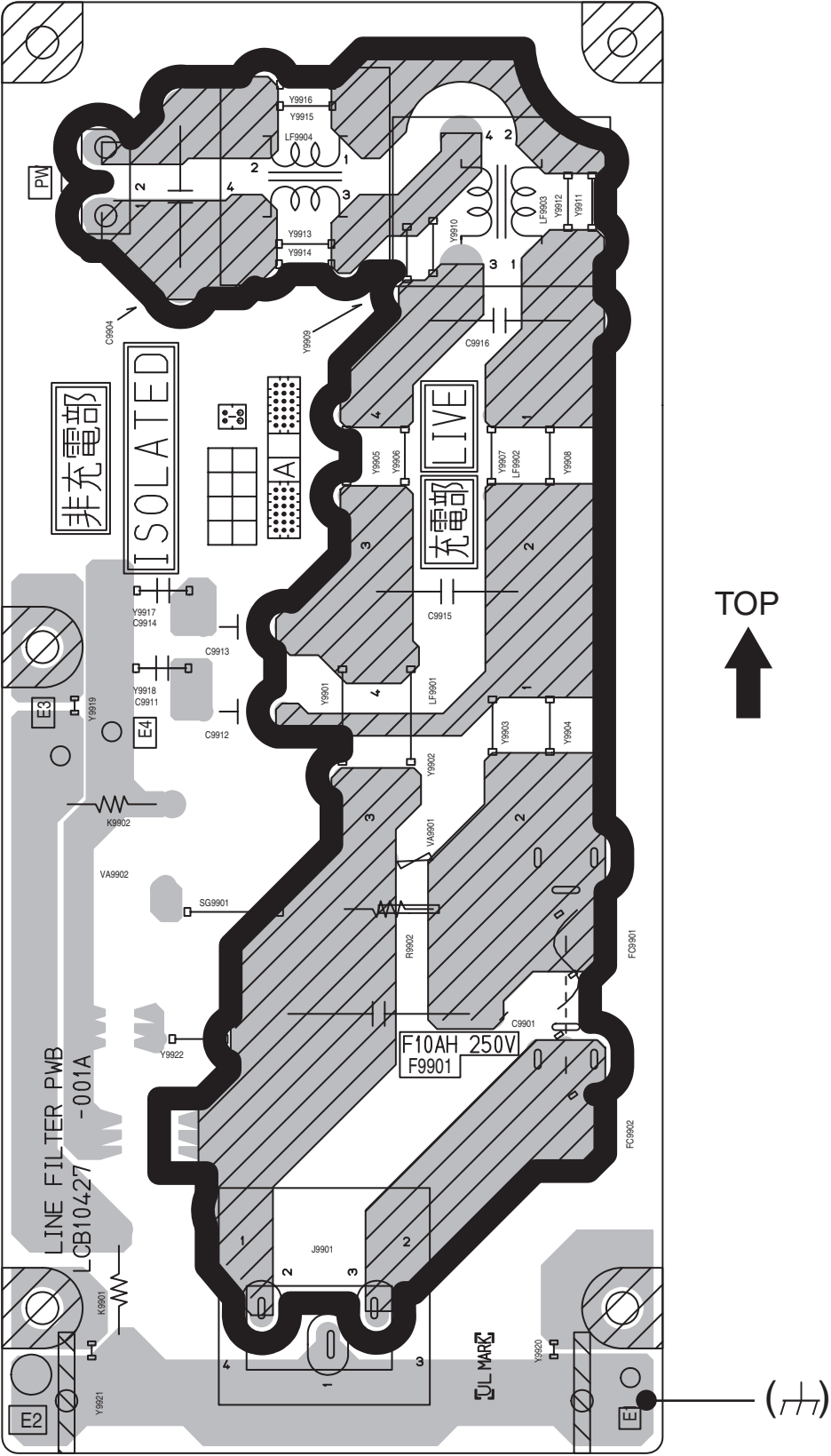
TOP

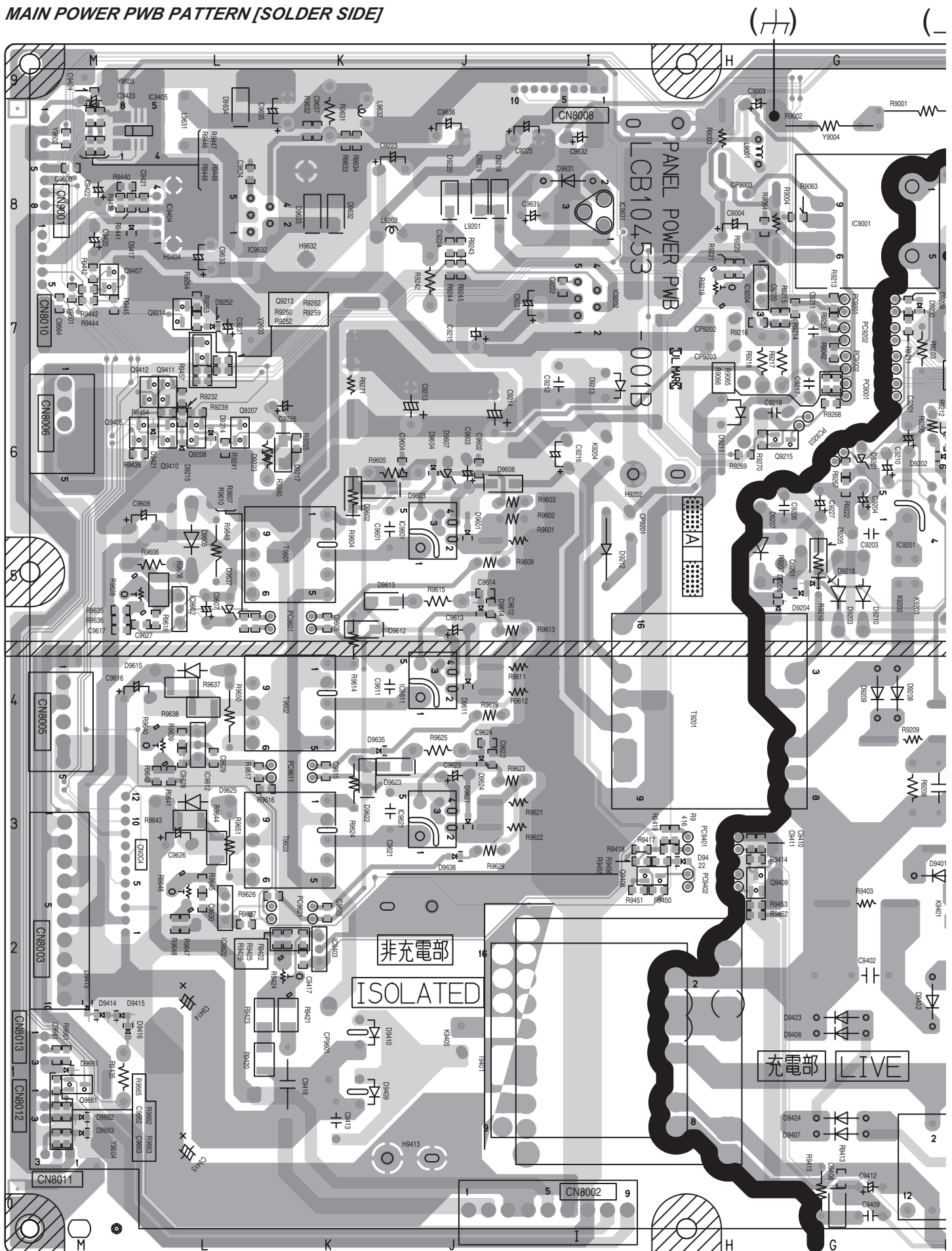


REGULATOR PWB PATTERN [PARTS SIDE]

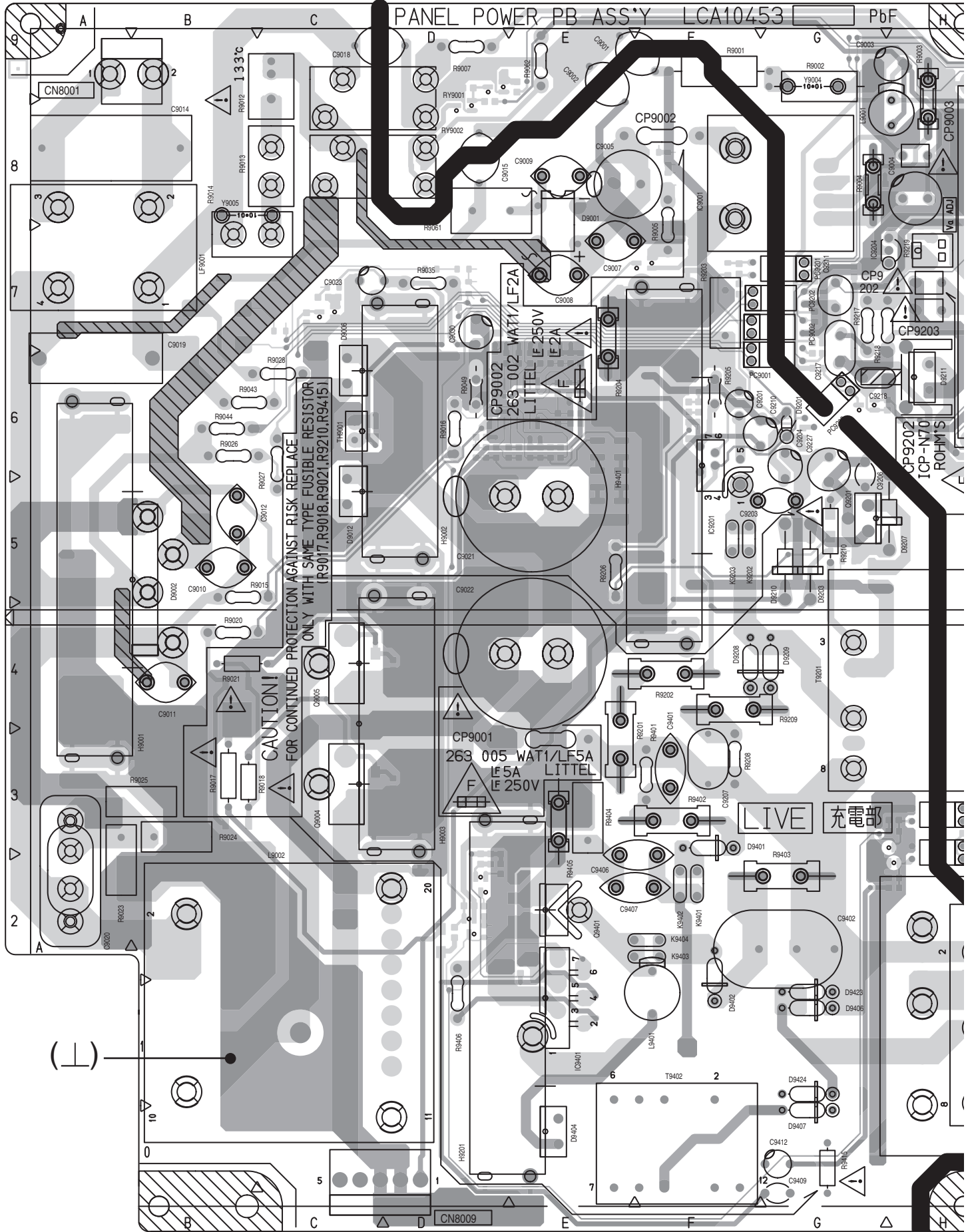


LINE FILTER PWB PATTERN





MAIN POWER PWB PATTERN [PARTS SIDE]





VOLTAGE CHART

< RECEIVER PWB > [P.2-9 - P.2-10]

PIN NO.	VOLTAGE(V)
IC3101	
1	4.1
2	4.1
3	4.1
4	4.1
5	4.4
6	4.5
7	0.1
8	4.1
9	4.0
10	4.1
11	4.0
12	3.4
13	4.0
14	1.3
15	1.3
16	0
17	0
18	3.3
19	9.0
20	0
21	4.0
22	4.1
23	4.2
24	3.9
25	4.1
26	4.1
27	4.1
28	2.2
29	4.1
30	4.1
31	2.0
32	4.0
33	4.1
34	4.1
35	4.1
36	4.1
37	4.1
38	4.1
39	4.0
40	4.0
41	1.2
42	4.1
43	4.0
44	4.1
45	4.1
46	4.1
47	4.1
48	4.1
IC3102	
1	4.5
2	4.6
3	4.5
4	0
5	4.5
6	4.5
7	4.6
8	9.0
IC3104	
1	4.5
2	4.6
3	4.5
4	4.5
5	0
6	0
7	0
8	4.5
9	4.5
10	4.5
11	4.5
12	9.0
13	9.0
14	9.0
IC3105	
1	4.5
2	4.5
3	4.5
4	0
5	4.5
6	4.5
7	4.5
8	9.0
Q3001	
E	3.8
C	0
B	3.2
Q3002	
E	3.2
C	9.0
B	3.8
Q3109	
E	0
C	9.0
B	0

< ANALOG SIGNAL PWB > [P.2-11 - P.2-12]

PIN NO.	VOLTAGE(V)
IC501	
1	4.0
2	4.5
3	3.9
4	0
5	4.5
6	0
7	4.9
8	4.3
9	4.5
10	4.2
11	4.5
12	4.5
13	0.2
14	0
15	4.0
16	4.5
17	4.0
18	4.5
19	4.5
20	0
21	5.0
22	4.0
23	4.5
24	4.0
25	4.5
26	4.5
27	0.1
28	5.0
29	4.5
30	4.0
31	4.5
32	9.1
33	4.4
34	4.4
35	0
36	4.5
37	4.5
38	4.5
39	3.7
40	4.5
41	4.2
42	9.1
43	4.5
44	4.1
45	4.5
46	3.7
47	3.5
48	0
49	0
50	4.4
51	4.5
52	4.6
53	4.3
54	4.4
55	3.6
56	3.9
57	0
58	1.3
59	4.5
60	4.3
61	4.5
62	4.5
63	4.3
64	4.5
IC802	
1	1.3
2	3.0
3	4.8
4	2.4
5	0
6	1.8
7	2.2
8	0
9	0
10	0
11	4.7
12	0
13	4.8
14	0
15	4.4
16	4.6
17	0
18	0
19	2.4
20	4.8
21	0
22	2.4
23	2.4
24	3.3
25	3.1
26	0
27	3.5
28	1.6
Q402	
S	2.9
D	3.0
G	4.4
Q403	
S	3.0
D	2.9
G	4.4
Q404	
S	2.9
D	3.2
G	4.8
Q405	
S	2.9
D	3.2
G	4.8
Q801	
E	2.7
C	0
B	2.1
Q802	
E	2.5
C	0
B	2.0
IC801	
1	2.2
2	1.9
3	1.2
4	0
5	2.1
6	0
7	0
8	0
9	0.3

[P.2-13 - P.2-14] PIN NO. VOLTAGE(V)

IC711	
1	0
2	2.5
3	4.6
4	0.4
5	2.2
6	4.5
7	0.4
8	0
9	2.5
10	0
11	5.0
12	4.9
13	0
14	4.4
15	4.4
16	4.9
IC801	
1	2.2
2	1.9
3	1.2
4	0
5	2.1
6	0
7	0
8	0
9	0.3

PIN NO.	VOLTAGE(V)
10	0.8
11	2.3
12	4.8
13	4.4
14	4.5
15	0
16	0
17	0
18	0
19	0
20	2.4
21	1.5
22	1.7
23	1.7
24	0
25	2.1
26	2.1
27	2.1
28	0
29	0
30	0
31	0
32	4.8
33	2.1
34	2.3
35	2.3
36	0
37	4.9
38	3.8
39	1.6
40	3.1
41	2.1
42	4.4
43	1.6
44	2.1
45	0
46	2.6
47	3.6
48	1.7
IC802	
1	1.3
2	3.0
3	4.8
4	2.4
5	0
6	1.8
7	2.2
8	0
9	0
10	0
11	4.7
12	0
13	4.8
14	0
15	4.4
16	4.6
17	0
18	0
19	2.4
20	4.8
21	0
22	2.4
23	2.4
24	3.3
25	3.1
26	0
27	3.5
28	1.6
Q402	
S	2.9
D	3.0
G	4.4
Q403	
S	3.0
D	2.9
G	4.4
Q404	
S	2.9
D	3.2
G	4.8
Q405	
S	2.9
D	3.2
G	4.8
Q801	
E	2.7
C	0
B	2.1
Q802	
E	2.5
C	0
B	2.0

PIN NO.	VOLTAGE(V)
Q810	
E	1.8
C	0
B	1.2
Q851	
E	1.6
C	0
B	1.0
Q853	
E	2.0
C	9.0
B	2.7
Q854	
E	9.1
C	2.5
B	3.1
Q855	
E	1.8
C	0
B	1.1
Q858	
E	2.9
C	9.0
B	3.5
Q859	
E	3.5
C	0
B	2.9
Q862	
E	0.9
C	3.8
B	1.4
Q863	
E	3.2
C	4.8
B	3.8
[P.2-15 - P.2-16] PIN NO. VOLTAGE(V)	
IC201	
1	0.3
2	0.2
3	0
4	0
5	0
6	0
7	6.2
8	0
9	4.9
10	0
11	8.8
12	1.3
13	0
14	0
15	0
16	0
17	0
18	0
19	0.5
20	0
21	4.5
22	4.4
23	0
24	2.0
25	1.3
26	2.1
27	0
28	0.3
29	0.1
30	4.8
IC202	
1	0.5
2	0.5
3	0
4	0.2
5	3.1
IC301	
1	4.8
2	4.5
3	4.4
4	0
5	4.6
6	0
7	4.7
8	4.7
9	4.7
10	0.5
11	4.5
12	4.5
13	0
14	4.7
15	0
16	4.7
17	4.7
18	4.7

[P.2-15 - P.2-16] PIN NO. VOLTAGE(V)

IC201	
1	0.3
2	0.2
3	0
4	0
5	0
6	0
7	6.2
8	0
9	4.9
10	0
11	8.8
12	1.3
13	0
14	0
15	0
16	0
17	0
18	0
19	0.5
20	0
21	4.5
22	4.4
23	0
24	2.0
25	1.3
26	2.1
27	0
28	0.3
29	0.1
30	4.8
IC202	
1	0.5
2	0.5
3	0
4	0.2
5	3.1
IC301	
1	4.8
2	4.5
3	4.4
4	0
5	4.6
6	0
7	4.7
8	4.7
9	4.7
10	0.5
11	4.5
12	4.5
13	0
14	4.7
15	0
16	4.7
17	4.7
18	4.7

PIN NO.	VOLTAGE(V)
19	0.4
20	4.5
21	4.5
22	0
23	4.5
24	4.4
25	0
26	0
27	4.3
28	0
29	00
30	4.3
31	9.1
32	4.5
33	0
34	0
35	4.5
36	4.5
37	0
38	4.5
39	4.5
40	4.5
41	4.5
42	0
43	4.6
44	4.5
45	0
46	4.5
47	9.0
48	4.7
49	0
50	0
51	0
52	4.6
53	0.5
54	0
55	4.5
56	0
57	4.7
58	0
59	4.6
60	0
61	4.7
62	0.4
63	4.5
64	4.5
65	0
66	4.6
67	4.6
68	4.6
69	0
70	4.5
71	4.5
72	0
73	4.8
74	4.7
75	4.7
76	4.6
77	0
78	4.5
79	4.5
80	0
Q307	
E	2.9
C	0
B	2.3
QB613	
E	0
C	4.9
B	-0.1
QB614	
E	4.5
C	-1.1
B	4.9
[P.2-19 - P.2-20] PIN NO. VOLTAGE(V)	
IC902	
1	4.9
2	0
3	3.3
Q901	
E	9.8
C	9.1
B	9.0
Q902	
E	5.6
C	4.9
B	4.8

< AV JACK PWB > [P.2-21 - P.2-22]

PIN NO.	VOLTAGE(V)
Q2203	
E	0
C	0
B	2.2
Q2204	
E	0
C	0
B	2.3
Q2205	
E	2.4
C	2.3
B	1.9

< DIGITAL SIGNAL PWB > [P.2-23 - P.2-24]

PIN NO.	VOLTAGE(V)
IC1502	
1	4.3
2	0
3	3.7
4	0
5	0
6	9.1
7	3.6
8	0
[P.2-25 - P.2-26] PIN NO. VOLTAGE(V)	
IC0401	
1	3.1
2	0.2
3	0
4	3.1
5	3.3
Q0101	
E	3.8
C	7.8

2-90

< INTERFACE PWB >

[P.2-45 - P.2-46]

PIN NO.	VOLTAGE(V)
IC801	
1	5.0
2	0
3	3.4
IC802	
1	4.9
2	0
3	3.4
IC805	
1	0
2	0
3	0
4	0
5	4.9
6	4.9
7	0
8	5.0
IC807	
1	1.8
2	0
3	58.0
4	3.1
5	0
6	3.3
7	5.0
8	0
9	0
10	2.4
11	2.5
12	5.0
13	0
14	0
15	5.0
16	5.0
17	5.0
18	0
19	0
20	5.0
21	5.0
22	0
23	5.0
24	4.9
25	5.0
26	4.5
27	4.7
28	4.4
29	4.5
30	5.0
31	0
32	0
33	0
34	0
35	5.0
36	5.0
37	4.8
38	0
39	5.0
40	5.0
41	5.0
42	5.0
43	5.0
44	0
45	0.3
46	0
47	5.0
48	0
49	5.0
50	5.0
51	5.0
52	5.0
53	4.8
54	0
55	3.2
56	5.0
57	0
58	0.4
59	0
60	0
61	5.0
62	0
63	5.0
64	5.0
IC809	
1	5.0
2	5.0
3	0
4	0
Q803	
E	5.0
C	5.0
B	4.4
Q805	
S	3.4
D	3.0
G	4.5

PIN NO.	VOLTAGE(V)
Q806	
S	3.4
D	2.9
G	4.4
Q807	
E	5.0
C	5.0
B	4.4
Q813	
S	3.3
D	3.1
G	5.0
Q814	
S	3.4
D	3.3
G	4.9
Q815	
E	0
C	4.8
B	0
[P.2-47 - P.2-48]	
PIN NO.	VOLTAGE(V)
IC103	
1	5.6
2	0
3	5.0
Q101	
E	0
C	0
B	0.6

< AUDIO PWB >

[P.2-49 - P.2-50]

PIN NO.	VOLTAGE(V)
IC6521	
1	6.1
2	6.1
3	6.1
4	6.1
5	6.1
6	6.1
7	6.1
8	6.1
9	0.9
10	6.1
11	3.1
12	3.1
13	4.6
14	4.7
15	0.0
16	12.1
17	4.9
18	0
19	5.5
20	5.3
21	6.1
22	6.1
23	6.1
24	6.1
25	6.1
26	6.1
27	6.1
28	6.1
29	6.1
30	6.1
IC6551	
1	6.3
2	6.2
3	6.2
4	0
5	6.2
6	6.3
7	6.3
8	12.1
IC6552	
1	6.3
2	6.3
3	6.2
4	0
5	6.1
6	6.3
7	6.2
8	12.1
IC6621	
1	-13.6
2	0
3	0
4	-13.8
5	0
6	0
7	-13.6
8	12.9
IC6661	
1	-13.6
2	-0.3
3	-13.7
4	-13.8
5	13.5
6	9.8
7	1.4
8	-13.8
9	-0.6
10	-13.8
11	1.4
12	9.8
13	13.5
14	-13.8
15	-3.3
16	-0.2
17	-13.6
IC6671	
1	13.5
2	0
3	12.1
Q6521	
E	0
C	0
B	-1.7
Q6522	
E	0
C	0
B	-1.7
Q6523	
E	0
C	-1.7
B	0

PIN NO.	VOLTAGE(V)
Q6531	
E	0
C	2.8
B	0
Q6532	
E	0
C	0
B	0.6
Q6533	
E	0
C	0
B	0.7
Q6534	
E	0.7
C	0.7
B	0.1
Q6538	
E	0
C	0
B	0.5
Q6539	
E	0
C	0
B	0.5
Q6661	
E	13.5
C	13.5
B	0
Q6662	
E	-13.8
C	-13.7
B	-13.1
Q6663	
E	0
C	0
B	4.5
Q6672	
E	0
C	12.0
B	0
Q6673	
E	11.6
C	0.1
B	12.0

< FRONT LED PWB >

[P.2-53]

PIN NO.	VOLTAGE(V)
IC1742	
1	3.7
2	5.0
3	0
Q1741	
E	0
C	0
B	3.3
Q1742	
E	0
C	0
B	3.3
Q1743	
E	2.4
C	2.2
B	0
Q1744	
E	2.2
C	2.0
B	0
Q1745	
E	2.1
C	2.0
B	0

< TEMP. SENSOR PWB >

[P.2-54]

PIN NO.	VOLTAGE(V)
IC8101	
1	4.6
2	4.7
3	0
4	0
5	0
6	0
7	0
8	4.9

< REGULATOR PWB >

[P.2-55 - P.2-56]

PIN NO.	VOLTAGE(V)
IC9401	
1	13.5
2	17.9
3	9.0
4	0
5	1.2
6	1.3
7	4.9
8	0
IC9621	
1	9.8
2	11.2
3	4.9
4	0
5	1.2
6	1.3
7	4.5
8	0
IC9801	
1	0
2	4.6
3	4.5
4	4.9
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	4.9
14	0
15	0
16	0
Q9211	
E	12.9
C	13.5
B	13.5
Q9212	
E	0
C	0
B	4.9
Q9822	
E	0
C	0
B	0.7

< MAIN POWER PWB >

[P.2-59 - P.2-60]

PIN NO.	VOLTAGE(V)
IC9001	
1	94.5
5	-10.4
6	-0.9
7	-0.5
8	0
9	5.6
IC9002	
1	1.4
2	1.8
3	1.1
4	1.4
5	1.9
6	1.8
7	0
8	4.5
9	22.4
10	22.5
11	7.5
12	22.4
13	5.0
14	0
15	1.6
16	-0.1
Q9002	
E	0
C	0
B	0.7
Q9003	
E	-0.1
C	0.7
B	0
Q9004	
S	0
D	88.3
G	4.7
Q9005	
S	0
D	88.3
G	4.6
Q9006	
E	4.5
C	22.0
B	4.5
Q9007	
E	16.4
C	0
B	16.7
Q9008	
E	0
C	30.7
B	-0.1
[P.2-61 - P.2-62]	
PIN NO.	VOLTAGE(V)
IC9201	
1	375.3
3	0
4	22.6
5	0
6	1.4
7	0.6
IC9202	
1	17.8
2	5.0
3	0
4	5.1
5	2.2
IC9204	
1	2.4
2	-0.1
3	10.3
IC9401	
1	375.0
2	0.5
3	0
4	19.1
5	0
6	1.1
7	3.4
IC9403	
1	2.4
2	0
3	14.2
Q9201	
E	23.2
C	26.9
B	23.8
Q9207	
E	0
C	0
B	0.7

PIN NO.	VOLTAGE(V)
Q9213	
E	1.1
C	0
B	1.0
Q9214	
E	0
C	5.0
B	0
Q9215	
E	0
C	0
B	0.6
Q9401	
S	0
D	402.0
G	0.5
Q9402	
E	0
C	1.1
B	-1.5
Q9405	
E	0
C	0
B	0.7
Q9408	
E	0
C	0
B	0.6
Q9409	
E	0
C	2.4
B	0
Q9411	
E	0
C	0
B	0
Q9412	
E	0
C	0
B	3.0
[P.2-63 - P.2-64]	
PIN NO.	VOLTAGE(V)
IC9601	
1	173.9
2	0.1
3	0
4	20.9
5	1.7
IC9612	
1	2.4
2	0
3	9.9
IC9621	
1	174.0
2	0
3	0
4	20.9
5	2.0
IC9622	
1	2.4
2	0
3	10.9
IC9631	
1	21.4
2	15.0
3	0
IC9632	
1	17.8
2	3.3
3	0
4	3.3
5	2.2
CN8002	
1	173.7
2	173.7
3	0
4	0
5	164.3
6	0
7	0
8	15.0
9	5.0

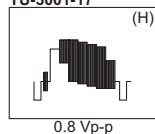
< SUB POWER PWB >

[P.2-63 - P.2-64]

PIN NO.	VOLTAGE(V)
IC9001	
1	375.4
3	0
4	17.1
5	0
6	0.2
7	0.5
IC9051	
1	2.3
2	0
3	15.0
Q9071	
E	0
C	0
B	0.6

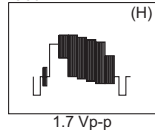
WAVEFORMS

RECEIVER PWB
(SHEET1)
TU-3001-17

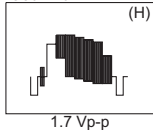


ANALOG SIGNAL PWB (1/5)
(SHEET2)

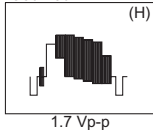
IC501-44



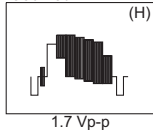
IC501-49



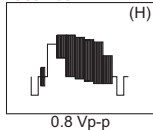
IC501-53



IC501-56

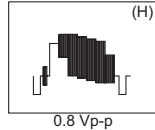


IC501-63

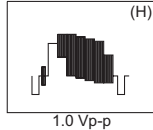


ANALOG SIGNAL PWB (2/5)
(SHEET3)

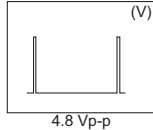
IC801-1



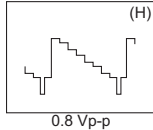
IC801-3



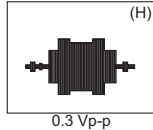
IC801-4



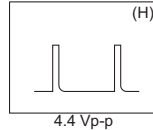
IC801-5



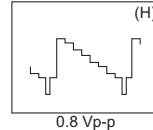
IC801-7



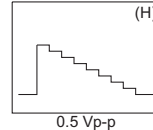
IC801-9



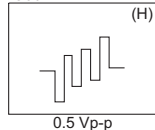
IC801-11



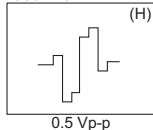
IC801-21



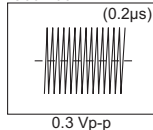
IC801-22



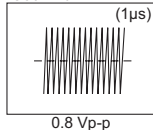
IC801-23



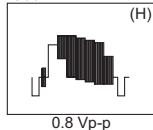
IC801-38



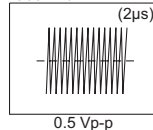
IC801-46



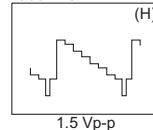
IC802-7



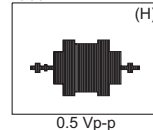
IC802-19



IC802-25

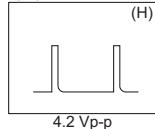


IC802-27

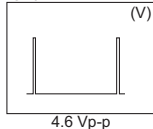


ANALOG SIGNAL PWB (3/5) (SHEET4)

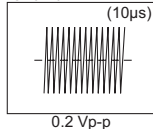
IC201-1



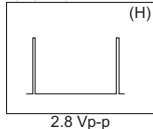
IC201-2



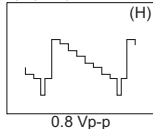
IC201-9



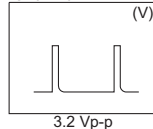
IC201-19



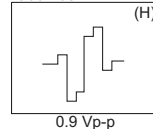
IC201-26



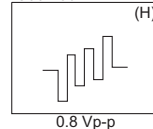
IC201-29



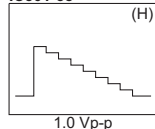
IC301-35



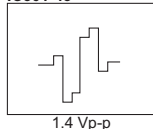
IC301-36



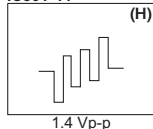
IC301-38



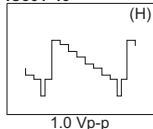
IC301-43



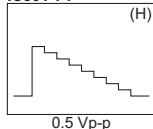
IC301-44



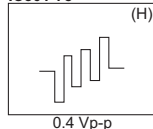
IC301-46



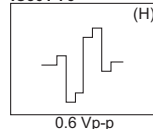
IC301-74



IC301-75

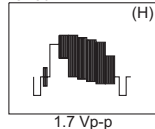


IC301-76

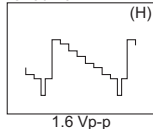


DIGITAL SIGNAL PWB (1/11) (SHEET8)

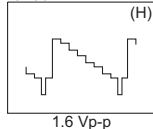
IC1502-1



IC1502-5

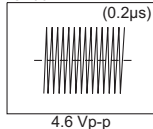


IC1502-7

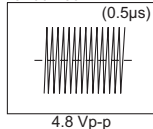


DIGITAL SIGNAL PWB (3/11) (SHEET10)

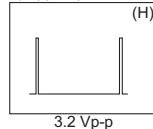
IC1001-7



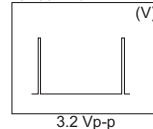
IC1001-58



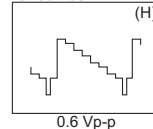
IC1001-75



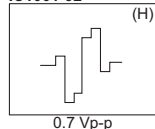
IC1001-76



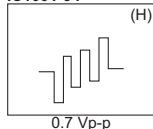
IC1001-85



IC1001-92

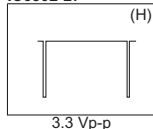


IC1001-94

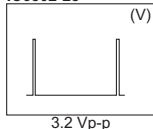


DIGITAL SIGNAL PWB (7/11) (SHEET14)

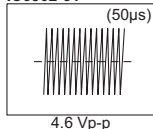
IC6502-27



IC6502-28

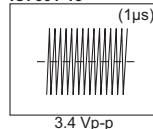


IC6502-31

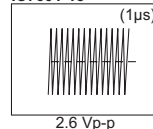


DIGITAL SIGNAL PWB (9/11) (SHEET16)

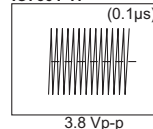
IC7601-13



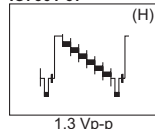
IC7601-15



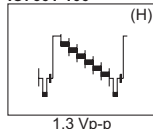
IC7601-17



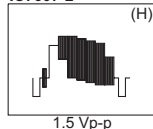
IC7601-97



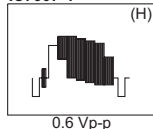
IC7601-100



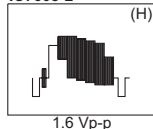
IC7607-2



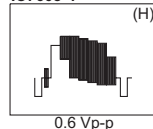
IC7607-4



IC7608-2

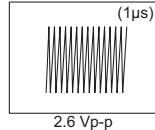


IC7608-4

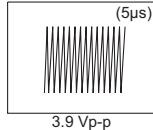


DIGITAL SIGNAL PWB (10/11) (SHEET17)

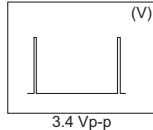
IC7001-23



IC7001-24

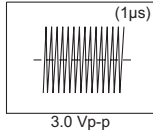


IC7001-78

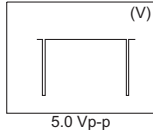


INTERFACE PWB (1/2) (SHEET19)

IC807-10



IC807-53





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